

Climate Change Challenge – Shaping our Future

Queenstown and Wanaka forums – workshop notes write-up

Contents

| | |
|--|----|
| Introduction | 2 |
| Queenstown..... | 3 |
| Biggest current challenge; successful future | 3 |
| Headline exercise..... | 4 |
| Key issues..... | 5 |
| Solutions | 6 |
| Wanaka | 12 |
| Biggest current challenge; successful future | 12 |
| Headline exercise..... | 13 |
| Key issues..... | 16 |
| Solutions | 17 |
| Appendix 1 | 26 |
| Queenstown full record of key issues from table discussions..... | 26 |
| Appendix 2 | 30 |
| Wanaka full record of key issues from table discussions | 30 |

Introduction

The Shaping our Future Climate Change Challenge forums were held in Queenstown and Wanaka on 6th and 7th May respectively.

28 people attended the Queenstown forum and over 60 attended in Wanaka. Shaping our Future has the full list of participants attending each session.

This document captures the full range of input captured during the forums. This document does not seek to interpret the input; but is simply an exercise of writing up the notes that were written down by participants, or captured on the whiteboard during the sessions.

Each workshop followed a similar format:

1. On arrival, participants were asked to provide 2 words – one to describe the biggest current challenge; the other to describe a successful future. These words were then collated into separate word clouds.
2. Headline exercise – describe long-term, ideal future success, in the format of a newspaper headline if possible
3. Key issues – capture the main issues that need to be addressed
4. Prioritising issues – weighted voting exercise to identify the most important issues
5. Solutions – mapping out solution pathways for priority issues

Queenstown

Biggest current challenge; successful future

The single words provided by participants on arrival for these two questions were transformed into word clouds, as follows:



Headline exercise

The following headlines and words were given:

- 200-year water management plan in place to maintain Queenstown's exemplary water health
- The first sustainable subdivision is open
- Queenstown Lakes is a carbon zero district
- Visit Queenstown – be carbon negative
- Queenstown inspires the world
- Relief airport didn't expand
- Self-sufficient power generation
- Local energy resilience proves success
- Queenstown residents are zero carbon
- QT first destination to measure full carbon footprint
- Tourist carbon footprint reduced by half
- Queenstown wins award for best zero carbon visitor itineraries
- Queenstown officially most expensive city in the world due to having full cost accounting for goods and services
- World visits Queenstown through virtual reality
- First zero carbon emissions city
- First town to fully achieve circular economy
- Tourists stop: zero fuel
- Airport limited to electric aircraft
- NZ bans fossil fuelled aircraft and ships
- Queenstown is the world's first carbon neutral tourist destination
- Queenstown's carbon neutral model adopted throughout NZ
- Queenstown farewells its last petrol-driven car
- NZ's first carbon neutral town
- UN votes 'yes' to Queenstown's carbon neutral model for the world
- Queenstown Lakes is NZ's #1 most self-sufficient district

- Queenstown’s VR tourism hits NZ\$5 billion
- Queenstown opening first teleportation and replicator reception
- First carbon neutral flight arrives in Queenstown
- Zero fossil fuels used in Queenstown (2022)
- Fossil fuel free Queenstown
- Southern Lakes join the ranks in a carbon zero world

Key issues

A full list of all the issues generated by each of the workshop table groups for the Queenstown forum is set out in Appendix 1. The final prioritised list of issues, with their priority score is set out below.

| Issue | Score |
|--|-------|
| Sense of urgency – collective mandate for action – energise the masses | 42 |
| Reliance on fossil fuel for transport given Queenstown’s location and isolation – tourists and aviation; other transport | 25 |
| Current business practices and consumer behaviours | 24 |
| Shift values and behaviours from commercialism to long-term thinking | 17 |
| Leadership – regulation and legislation | 13 |
| GDP as the measure of success | 10 |
| Consumption – too much of it and irresponsible use of resources, e.g. packaging | 9 |
| Managing the impacts of weather change – floods, rain, fires | 7 |
| Human impacts affecting healthy ecosystems – water, biodiversity | 6 |
| Growth – population, buildings, visitors, housing, profits | 2 |
| Poor land-care – high transport and livestock emissions | 1 |
| Reliance on technology as the presumed solution | 1 |
| Resilient food system | 0 |

Solutions

People self-organised to have discussions about solutions for priority issues using the standard Shaping our Future solutions template.

| Reliance on fossil fuels | |
|-------------------------------|--|
| Issue | Response |
| Critical driving influences | <p>What?</p> <ul style="list-style-type: none"> ✓ Getting to work / school ✓ Not enough other options other than driving – though some bus or use water taxi ✓ Tourist impacts – renting vehicles, flying in, tourist flights <p>Who?</p> <ul style="list-style-type: none"> ✓ Residents ✓ Visitors ✓ Consultants / contractors from outside of Queenstown <p>How?</p> <ul style="list-style-type: none"> ✓ The way we live |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ No fossil fuel transport (exemption for the Earnslaw) ✓ A range of alternative transport <ul style="list-style-type: none"> ○ Hydrogen fuelled ○ Electric (e-bikes, ferries) ○ Gondolas ○ Trackless trams ○ E-scooters ✓ Measure progress <ul style="list-style-type: none"> ○ Improve quality of water – no fuel in water ○ No petrol stations |

Reliance on fossil fuels

| Issue | Response |
|------------------------|--|
| | <ul style="list-style-type: none"> ○ Proliferation of e-charging stations (or another energy source not yet invented) |
| Solutions / Next steps | <p>What?</p> <ul style="list-style-type: none"> ✓ Change our way of thinking – individual and business ✓ Supportive employers supporting local alternative transport ✓ Outer regions have services – Kingston, Glenorchy, Kinloch <p>Who?</p> <ul style="list-style-type: none"> ✓ Individuals ✓ Businesses ✓ Council / Regional ✓ Government <p>How?</p> <ul style="list-style-type: none"> ✓ Communication ✓ Strong and bold leadership ✓ Support from Government ✓ Revised funding model |

Current business practices and consumer behaviour

| Issue | Response |
|-----------------------------|---|
| Critical driving influences | <p>Governed by market forces</p> <ul style="list-style-type: none"> ✓ Business driving consumption ✓ People valuing products rather than nature or happiness ✓ Easy and nearly free to waste ✓ No true cost recovery ✓ GDP – nonsense – 67% of work is not counted |

Current business practices and consumer behaviour

| Issue | Response |
|-------------------------------|--|
| | <ul style="list-style-type: none"> ✓ Males on boards of companies that females buy from |
| Ideal future outcomes – 2050+ | <p>Consumer understanding the full impact of purchases</p> <ul style="list-style-type: none"> ✓ Life-styles – reintegration into nature ✓ Values / action filling current gap ✓ High impact purchases reduced / eliminated ✓ Changing values of happiness and de-linking happiness from consumption ✓ Shared society, shared economy, shared tool-sheds <p>Measurements</p> <ul style="list-style-type: none"> ✓ Reduced waste and emissions ✓ Tax collections (those not consuming correctly will pay) ✓ Shared facility usage ✓ Community events focussed away from consumption ✓ Repair centres set up ✓ Sustainable consumption |
| Solutions / next steps | <ul style="list-style-type: none"> ✓ Limit advertising ✓ Full scale accounting for emissions ✓ Top down; bottom up campaigning ✓ Localisation – food, wisdom, markets ✓ Rationing – to prioritise / reduce high impact purchases ✓ Resource taxing ✓ Control over consumption ✓ Consumption tax ✓ 3D printing |

Shift values and behaviours from commercialism to long-term thinking

| Issue | Response |
|-------------------------------|--|
| Critical driving influences | <ul style="list-style-type: none"> ✓ Convenience marketing ✓ Disconnections with the resources we want to buy ✓ Social influences ✓ Credit cards, store credit, laybys, interest free ✓ Technology advances ✓ Cheap stuff made more available online from China ✓ Capitalism ✓ Retailers ✓ Societal norms are that having stuff = happiness |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ People are minimalist ✓ We consume less ✓ People are self-sufficient ✓ Items are priced according to their impact on the world ✓ We are no longer a throw-away society “mend and make do” ✓ Producer pays ✓ Our economic system isn’t based on a growth model ✓ Genuine Progress Indicators used instead of GDP ✓ We are all conscious consumers ✓ Our urban areas are designed in a way to encourage people to do other things than just spend money |
| Solutions / next steps | <ul style="list-style-type: none"> ✓ Everybody uses CoGo (conscious consumers) ✓ Tax (carbon tax) ✓ Subsidies on low carbon products / services ✓ Restrict loans / credit / interest free offers etc ✓ Policy for circular economy ✓ Regulation for cradle-to-cradle manufacturing processes ✓ Education – kids, parents, everyone ✓ Vote – ask candidates the hard questions ✓ Set some ambitious goals and stand by them ✓ Awareness |

Shift values and behaviours from commercialism to long-term thinking

| Issue | Response |
|-------|---|
| | <ul style="list-style-type: none"> ✓ Vote with your wallet |

Sense of urgency: collective mandate for action. Energise the masses – lack of action in sphere of influence

| Issue | Response |
|-------------------------------|---|
| Critical driving influences | <p>What?</p> <ul style="list-style-type: none"> ✓ Sense of powerlessness ✓ Conflicting information ✓ Apathy ✓ Fatigue ✓ Lack of belief / belief systems ✓ Dependence on status quo ✓ Heads in sand <p>Who?</p> <ul style="list-style-type: none"> ✓ Our community ✓ Councillors / council ✓ Business people |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ Majority of population signing up to a local climate manifesto / climate emergency declaration ✓ Messages on climate / urgency are relevant to each of us (locally and demographically) ✓ The public are actively engaged with nature in the local community ✓ KPIs |
| Solutions / next steps | <ul style="list-style-type: none"> ✓ Declaration of climate emergency – local ✓ Join NZ Mayoral Forum – declaration ✓ Zero Carbon Act ✓ Support groups <ul style="list-style-type: none"> ✓ Sustainable Queenstown (citizen democracy) ✓ Extinction Rebellion |

| | |
|--|--|
| | <ul style="list-style-type: none">✓ Impact incubator – social enterprise✓ Promote relevant science and research✓ Tiaki promise – leadership✓ Education for public and visitors✓ Direct action – threat of external view✓ Small positive steps / good news |
|--|--|

Wanaka

Biggest current challenge; successful future

The single words provided by participants on arrival for these two questions were transformed into word clouds, as follows:



Headline exercise

The following headlines and words were given:

- South Island Kokako found in Mount Aspiring National Park
- All farming practices certified sustainable and organic
- Council celebrates 10-year anniversary of maximum house size restriction
- Lake Wanaka buoy confirms dramatic improvement in phosphate and nitrate levels
- Last open fireplace removed – owners of wood burners placed on notice
- Community windfarm celebrates 15 years of operation
- Negative carbon emissions worldwide
- Wanaka leads work in 2020 implementing local ecocide law
- Sustainable recycled waste building bricks developed in Wanaka
- All fossil fuels replaced with renewable energy
- Wanaka's population capped – tourism cap has worked
- Wanaka's food supply is now entirely local and self sufficient
- Zero waste due to successful community composting
- Nobody is hungry – new food systems
- Success reframed in 2038
- New industry and tourism outputs borne out of climate realities
- Ecosystem services are maintained at sustainable levels
- We've done it! We are carbon zero
 - All rentals only offer electric vehicles
 - Public transport is carbon zero
 - We are known for sustainable tourism, pioneers of sustainable tourism
 - Zero waste
- We no longer rely on tourism, we have alternate, clean, diverse industries contributing to Wanaka's economy
- New Zealand has the greatest excess of distributed plant, food and cultural source power
- Wanaka Wastebusters closes down due to lack of use
- New Zealand is a completely cyclic country
- Last BP station closes

- Biggest cash crop in NZ is hemp
- NZ car ownership drops below 5%
- Totally recyclable batter production passes all predictions
- NZ exports 95% plant derived
- Arctic summer ice back to 2000 levels
- Local glacier advances confirmed
- New Zealanders have started eating chestnuts
- We have re-forested back to 85%
- Fossil fuels replaced
- Increase in biodiversity
- We've started drawdown
- Decrease in global travel
- New economic system no longer demands growth
- Falling population numbers
- All regional air traffic is electric
- Everyone cycles to work
- Southern Lakes people's assembly announces carbon neutrality
- Dominant car culture fades to distant memory
- Capitalism challenged as NZ's economic model
- Participatory democracy achieves utopia
- Growth not seen as ultimate goal
- True cost metrics show suicide rates at lowest historical point
- Solar light rail connects South Island towns
- Tourism is no longer the No.1 business in QLDC
- Eco-forestry surpasses tourism in QLDC as No.1 business
- Electric aircraft mean no jets required into Southern Lakes
- QLDC annual carbon budget is in the green
- Pastoral farming extinct in the Upper Clutha
- By 2038 we are celebrating 10 years of sustainable living
- No privately-owned cars

- We are carbon neutral
- Youth led by community
- Healthy housing for all
- Zero waste – landfill closed
- Veganism saved us all
- Sustainable tourism
- Climate change cancelled
- Hemp replaces plastics
- Glacier rejuvenation
- Plastic a thing of the distant past
- Fossil fuels end of an era
- Extinction averted
- Fresh air
- Transport solutions are sustainable
- We are still alive
- Communities drive change
- Vegetarianism has become the norm
- Dairy reductions
- Finally stabilized CO2 emissions
- NZ finally 100% pure sustainable
- All public transport services go electric
- Humanity has pulled together
- The politicians finally listened to the scientists
- Toxic chemicals no longer used
- 1 world, 1 family
- No chronic disease
- Breathable air
- 100% renewable
- Last flight leave Auckland – boats only – sail
- Gender balance 10-year anniversary

- Still want to be here
- All farming is biological
- Still snow in Wanaka
- Carbon at 225 ppm

Key issues

A full list of all the issues generated by each of the workshop table groups for the Wanaka forum is set out in Appendix 2. The final prioritised list of issues, with their priority score is set out below.

| Issue | Score |
|---|-------|
| Growth does not equal success – myth of need for continual economic growth | 92 |
| Farming livestock – emissions, fertilizer, run-off, water, shift to friendly models | 52 |
| Leadership and Governance – vision and courage, fit for purpose, participatory democracy, grassroots for the people | 42 |
| Transport – roads and air, public transport, active | 39 |
| Tourism – unsustainable, too much growth | 36 |
| Happy people – connected, resilient, healthy, motivated, sustainable livelihoods | 31 |
| Ecosystems and biodiversity – water, wetlands, air, soil | 18 |
| Awareness and education – short to long-term thinking | 18 |
| Wellbeing is success | 5 |
| Regulatory change – learn from others, best practice | 3 |
| Waste | 3 |
| Safe energy – renewable | 2 |
| Inequality | 2 |
| Food systems – feeding people, resilience | 2 |

Solutions

People self-organised to have discussions about solutions for priority issues using the standard Shaping our Future solutions template.

| Tourism | |
|-------------------------------|--|
| Issue | Response |
| Critical driving influences | <p>Who?</p> <ul style="list-style-type: none"> ✓ Business ✓ Council ✓ Central Govt <p>How?</p> <ul style="list-style-type: none"> ✓ Proposed airport expansion ✓ Emphasis on tourist numbers ✓ Lack of forethought ✓ Volume vs quantity ✓ Job creation ✓ Cheap air fares ✓ Promotion |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ Less tourists – defined limits on tourist numbers ✓ Maintain local values ✓ Collaborative rather than competitive ✓ Nationally led rather than locally ✓ Spread tourist distribution over NZ ✓ Low emission tourism ✓ Eco-tourism ✓ DoC return to original goals: protect environment ✓ Carbon tax on: flight arrivals; rental vans ✓ More opportunities for public transport ✓ Enhance non-motorised transport and tourist activities – natural quiet |

Tourism

Issue

Response

Solutions / next steps

- ✓ Regulate tourism – tax / numbers / emissions / access
- ✓ Reduce business influence on public lands
- ✓ No more airport expansion
- ✓ Tax breaks for businesses – incentive model

Growth

Issue

Response

Critical driving influences

- Who?
- ✓ Capitalism
 - ✓ Corporates
 - ✓ Governments
- How?
- ✓ Consumption
 - ✓ Growth as a driver of everything – all policies
 - ✓ You can't manage growth – problem
 - ✓ Greed is good
 - ✓ Individualist
 - ✓ Neo-liberalism
 - ✓ Lack or absence of QLDC climate change policy

Ideal future outcomes – 2050+

- ✓ Go beyond IPCC recommendations
- ✓ A balanced society driven by common values
- ✓ Have started drawdown
- ✓ Our region leads the way on sustainable living
- ✓ Have an economic system not relying on growth

Growth

Issue

Response

- ✓ Doughnut economic theory
- ✓ Local de-growth: tourism, livestock, waste, emissions
- ✓ Natural capital
- ✓ Local government listens to and acts on community values

Solutions / next steps

- ✓ Introducing water rates
- ✓ Global – strong legislation and regulations
- ✓ Implementing technical solutions
- ✓ Behavioural changes
- ✓ Age friendly policy by local government
- ✓ Community values based local government
- ✓ Every house has a dual water system
- ✓ Adopt doughnut economic theory
- ✓ Science-based action
- ✓ Rules uniting holiday houses – no empty house
- ✓ Tourism cap – no airport extension
- ✓ Council tell the truth – education- declare a climate emergency
- ✓ Every house has a storm-water tank
- ✓ If regulations go against solutions – can council sue the government
- ✓ De-growth emissions – electric public transport
- ✓ Promote EV – EV plug in new houses
- ✓ Compulsory solar panels on new houses

Leadership and governance

| Issue | Response |
|-------------------------------|---|
| Critical driving influences | <p>Who</p> <ul style="list-style-type: none"> ✓ Central government ✓ Local government ✓ Younger people want action <p>What</p> <ul style="list-style-type: none"> ✓ Hard choices ahead (unpopular) ✓ Not black and white (e.g. Airport conversation) ✓ Climate change will force decisions ✓ Motivation – individual responsibility ✓ Barriers to tangible involvement |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ Others want to emulate Wanaka’s governance structure ✓ Everyone is represented <ul style="list-style-type: none"> ✓ People’s assembly ✓ Fair representation ✓ Making sure people in power are empowered to lead ✓ Gender equality and diversity – age / culture ✓ Long-term thinking (beyond the 3-year election term) ✓ Waka – all going in the same direction ✓ Spending cap on electoral spending <ul style="list-style-type: none"> ✓ Making it even across the board ✓ Equitable and transparent process ✓ Community involved not apathetic – skin in the game; consensus building, not dividing ✓ Localism (not just central government making the decisions) ✓ Futurist thinking ✓ Scientists around the table ✓ Genuine public consultation – results taken on board |
| Solutions / next steps | <ul style="list-style-type: none"> ✓ Define sustainable ✓ Identify participants and invite them |

Leadership and governance

| Issue | Response |
|-------|---|
| | <ul style="list-style-type: none">✓ Define measures✓ Climate plan (QLDC currently drafting action plan)✓ We need to do something✓ Online voting systems✓ Education and awareness to overcome apathy✓ Enviro-schools – extend beyond recycling / composting✓ Cumulative community action✓ Motivation to march✓ Try something different (e.g. get someone global involved in the plan)✓ Do best we possibly can✓ Future focus (future generation benefit) |

Land-use

| Issue | Response |
|-----------------------------|---|
| Critical driving influences | <p>What?</p> <ul style="list-style-type: none">✓ ROI – return on investment; staying in business✓ Desertification✓ Tenure✓ Corporate✓ Cultural✓ Meat and wool – economic service✓ Advisory services✓ Vested financial interests✓ Trees✓ Wildings |

| Land-use | |
|-------------------------------|---|
| Issue | Response |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ Self-sufficient for food ✓ Continuous forest cover ✓ Stay below 2 degrees warming ✓ All farming is biologically favourable ✓ No burning ✓ No Roundup ✓ Preference for natives ✓ Soil carbon levels 4* and higher ✓ Restorative practices ✓ Broadacre herbicide application is illegal (might come from markets, ideally) |
| Solutions / next steps | <ul style="list-style-type: none"> ✓ Incentivise farming change – carrot and stick ✓ Compliance ✓ Applied science (not chemical driven) ✓ Natural and social sciences ✓ Solution oriented research; i.e. how would we change soil biology so that wildings did not spread where we don't want them |

| Green building practices (housing) | |
|------------------------------------|---|
| Issue | Response |
| Critical driving influences | <ul style="list-style-type: none"> ✓ Building code insufficient ✓ Waste ✓ Materials, build quality ✓ Size, density across available land ✓ Council departments disconnect (silos) ✓ National government legislation |

Green building practices (housing)

| Issue | Response |
|-------------------------------|--|
| | <ul style="list-style-type: none"> ✓ Speculative culture – short-term exploitative profit ✓ Short-term thinking ✓ Education ✓ ‘Wealth in property’ mentality |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ Appropriate housing for local needs ✓ Different models ✓ Eco-design advisor ✓ Zero waste ✓ Solar – renewables ✓ Water – replace per capita consumption – closed loop water systems ✓ Homestar ratings compulsory ✓ Developers contributions dedicated to local area ✓ Zero energy ✓ Communal gardens ✓ Sustainable subdivisions <ul style="list-style-type: none"> ✓ Recontouring ✓ Run-off ✓ Planting ✓ Stormwater ✓ Roads ✓ Local / natural / non-toxic materials ✓ Continuing professional development – educating building professionals in sustainable building |
| Solutions / next steps | <ul style="list-style-type: none"> ✓ Incentives for better / best practices and materials (especially locally sourced) ✓ Government subsidies for solar ✓ Education on waste and long-term building practices ✓ Communal housing solutions ✓ Legislate for higher building code ✓ Lower rates for efficient housing ✓ Public education around building practices / easy access to information |

Transport (air and road; international vs domestic vs local)

| Issue | Response |
|-------------------------------|--|
| Critical driving influences | <p>What?</p> <ul style="list-style-type: none"> ✓ Lack of public transport ✓ Car dominant culture ✓ Volume of vehicles ✓ Safety issues including active transport / cycling ✓ Lack of options / choice <p>Who</p> <ul style="list-style-type: none"> ✓ Tourists ✓ Locals / community ✓ Conflicts of interest ✓ Short termism – lack of local transport planning <p>How?</p> <ul style="list-style-type: none"> ✓ Emissions |
| Ideal future outcomes – 2050+ | <ul style="list-style-type: none"> ✓ Eliminate fossil fuel transport ✓ Prevalence of EV charging stations ✓ Hydrogen fuel cell vehicles ✓ Zero emissions ✓ Mode shift – move away from reliance on vehicles ✓ Integrated public transport ✓ Community owned car-share ✓ Trains – inter-ton ✓ Next generation transport ✓ Safety being a priority ✓ E-bikes |

Transport (air and road; international vs domestic vs local)

| Issue | Response |
|------------------------|--|
| Solutions / next steps | <ul style="list-style-type: none">✓ Cap flights✓ Public transport – infrastructure implemented✓ PT from satellite towns / move from recreational focus to commuting✓ Cycle network – safe and protected✓ Improve strength of wireless network✓ Incentivise mode shift✓ Ban single occupancy cars✓ Prevalence of charging (generation)✓ Driverless / autonomous vehicles✓ Shared vehicles✓ Public transport |

Appendix 1

Queenstown full record of key issues from table discussions

Table 1

People

- Educating the community
- Move perception that more money = happiness
- Stop development for profit and follow wellbeing design principles
- Individual actions that can make a difference
- Optimistic and positive climate action
- People forget they are part of nature and the community
- People don't see the opportunity in the change

Policy regulation and consumer behaviours

- Carbon tax vs subsidy – for carbon zero products
- Divestment from fossil fuels
- Consumers – impact business – smart buying, impact investment, social enterprise
- Every development must meet the UN SDGs
- Housing development to include wildlife and water considerations
- Land-use planning; and travel choices and emissions
- Meat tax

Waste

- Stop waste collection services
- Better and more efficient construction – reuse construction and demolition waste
- Get rid of septic tanks
- Reduce consumption

- Zero waste – closed loop manufacturing – circular economy

Food

- Local food system
- Smarter agriculture – e.g. seaweed – cows – methane
- Better land-use and development to reduce transport emissions

Transport

- Electric transport
- Tighter regulation on vehicle emissions
- Reduce road transport
- Active transport
- Better public and active networks to cut transport emissions

Earth care

- Reforestation – biodiversity
- Community engagement with nature

Economy

- Business and organisations need to lead by example
- Diversify the economy
- Promote local and sustainable business

Table 2

- Transform the economy
- Transform the tourist industry – zero impact and expensive, for caring tourists
- Impose emission zero transport
- Create pressure to create change – energise and mobilise the masses
- Legislate for sustainable agriculture

- Change agriculture to horticulture
- Current business practices
- Methane capture and use of all landfill
- Eliminate landfill
- Low rent for local businesses
- Affordable living
- Looking after locals

Table 3

- Giving people agency – enablers to people
- Values change = behavioural change – accountability in daily purchases and decisions; understanding impact and taking effective action
- GDP as a measure of growth
- Growth – more people consuming and not knowing how to change the way they consume (food, clothes, energy...)
- Economic shift – designing accounting tools to measure the true cost of production / consumption – true metrics for business
- Building a values system where we live within biosphere constraints
- Find investment in research to obtain a sustainable renewable energy system (carbon neutral)
- Eco-anxiety – emotional wellbeing
- Disengagement of people – climate change problem is too big
- Sphere of influence
- All vehicles are electric; all energy is renewable
- Ancestral wisdom – prevent materialism and mass consumerism
- Produce all meat products locally
- Technology will not save us; need to understand what is actually going to be required to halt climate change and action it
- Recreating a low carbon society and energy system whilst we still have available energy sources

Table 4

- Collective sense of urgency
 - Mandate
 - Deciding as a community
 - Lack of clear solutions

- Actions
- Transport – fossil fuels
- Short term thinking – clunky, slow, bad decision-making systems
- Growth – population and tourism
- Funding mechanisms for local government in NZ
 - Challenging status quo now
 - Lobbying
 - Lead the progression
 - District plan
- Engaging visitors in the solution – how to be a tourist in Queenstown

Appendix 2

Wanaka full record of key issues from table discussions

Table 1

- Carbon emissions from transport / lack of public transport
 - Aircraft
 - Cars
 - Public
- Buildings
 - Waste from construction
 - Sustainable, healthy living homes
 - Lack of land for flexible options like tiny homes
 - Legislation to build better – raise building code locally
- Tourism
 - Environmental footprint
 - Freedom campers
 - Lack of infrastructure
- Affordability to improve infrastructure
 - Can't be taxpayers already
- Organic waste to landfill
 - What to do with organic waste
- Extreme environments – wind, weather, sun
 - Threat to species
- Earthquake strengthening
- Landfill sites near coast and the Fox Glacier
- Lack of land to plant trees and offset carbon emissions
- Waterways polluted and erosion from irrigation (dairying)
- Health and wellbeing of community

- Priority to consider environmental impacts of Wanaka airport's proposed expansion – at what cost to the community
- Wetlands – restore wetlands – value wetlands

Table 2

- Farming / land-use
 - Too many animal-based farms
 - Change from chemical fertilizer to biological fertilizer
 - Aiming for 70% crown cover in the landscape
 - More appropriate land use – less animal farming and more forest farming
 - Promoting healthy watersheds
 - Water pollution
 - How to convert to plant-based farming
 - Re-look at how we manage our wilding forests – better management to create industry and jobs instead of poisoning and wasting
 - Herbicides and pesticides
- Tourism
 - How to sustain international tourism
 - Tourism cap
 - Tourism tax
 - Compulsory offsetting
 - Get over our gratitude for being visited
 - Shared transport – buses etc so not all single rentals for each tourist
- Transport
 - No enough clean alternative transport
 - Bus system – ride share
 - How to move to a full rideshare electric vehicles model
 - Rail system to link communities
 - Public local transport
- Housing / building
 - More condensed housing
 - 'Custom build' culture

- Low energy efficient and widely dispersed housing
- How to build totally energy efficient housing
- Subsidies on solar
- Councils to enforce green building technology
- Sustainable housing
- Waste / rubbish
 - No more crap goods from China that break after one use
 - All business refusing non-biodegradable packaging – not passing to consumers
 - No more non-biodegradable food containers
 - No fast food

Table 3

- How to win hearts and minds – getting everyone to understand the problem
 - Declare an emergency
 - Make Fridays a climate change day
 - Start an “M bovis” campaign on climate change
 - Include climate change in all educational curriculums
 - Every person becomes an activist for change
 - Accept the ‘new normal’
- Debunk the myth of the need for growth
- Land-use change and restoration (i.e. dismantle pivot irrigation)
 - More protection for our conservation estate
 - Protect water – water is life
- Rationalise local travel – public transport, electric to replace single use car
- Over-tourism
- Incentivise clean energy
- Transition fossil fuels – subsidy for renewables
- Preventative measures to avoid climate wars
- Change construction methods
- Inequality

Table 4

1. Food / Water
2. Happy people
3. Safe power and energy
 - Sustainable building practices
 - Individual transport options
 - Think global, act local
 - Negative growth
 - Equanimity
 - Social diversity
 - Refugees
 - Pests
 - 100% locally sourced food
 - Cannabis canapes

Table 5

1. Grassroots / common goals
 - a. Communal housing with green spaces
 - b. Community resilience
 - c. Common goals – winning hearts and minds
 - d. Ego breakdown
 - e. Community connection
 - f. More referendums – public voting
2. Building sector
 - a. Community spaces taking priority over commercial interests
3. Fuel sector
 - a. Transport emissions
 - b. Travel options
 - c. Sustainable transport
 - d. Reduce fossil fuels

- e. Less travel
- f. Public transport
- g. Transport – shift in mindset – ecocide laws
- h. 100% renewable electricity
- i. Electric technology
- j. Public transport -
- Education
 - Back to basics education - gardens
- Tourism
 - Less dependence
 - Tourism limitations if high impact
- GDP that measures true cost of product decisions
 - Short term thinking – 3-year cycle
- Reduce plastic wrapping
- Landfill use reduced – recycle and reduce packaging
- Solar power – renewable domestic power
- Agriculture
 - Reduce run-off pollution
 - Fresh water priority
 - Organic living
 - Use of toxic materials / spray
 - Food production
 - Local production
 - Less dairy / less fertilizer / less intensive
 - Reduce intensification

Table 6

- Built environment
 - Sustainable building systems
 - Energy efficient systems

- Building waste
- Durability
- Materials
- Regulations for higher standard and more sustainable designs
- Community housing on smaller footprint
- Tourism
 - Cap on numbers
 - Limit on flights
 - Destination plan for sustainable tourism
 - Growth exceeds sustainable capacity
 - 'overtourism'
- Transport
 - Dependence on cars / fossil fuels
 - Adequate public transport
 - Tourism growth increases transport
- Awareness
 - Not enough!
 - Ecological literacy
 - Short-term thinking
- Industrial agriculture
 - Unsustainable dependence practice
 - Meat and dairy
- Waste
 - Water
 - Building
- Biodiversity
 - Falling dramatically

Table 7

1. Growth

- a. Preserving character
 - b. Population growth – over tourism
 - c. Decisions by local community
2. Transport
- a. No emission standard for vehicles
 - b. Limited EV charging
 - c. Increasing air travel
 - d. Increasing international tourism
 - e. No public transport
 - f. Buy local unpackaged goods – reduce transport
 - g. Carbon zero
 - h. Poor quality cycle lands
 - i. EV council vehicles
 - j. Air travel
3. Environment
- a. Reduce waste
 - b. No composting
 - c. Wool – over synthetic products
 - d. Banks to loan to farmers on sustainable criteria
 - e. Business driven by benefit to community and environment, not profit for a few
 - f. Water quality and usage
 - g. Natural environment loss to farming land or housing / urban growth
 - h. Dairy farming land to decrease – reduce irrigation, improve water quality, replace native habitat
 - i. Preserve quality soils
4. Housing
- a. Prevent urban sprawl
 - b. Sustainable building
 - c. Healthy housing

Table 8

- Lack of understanding of water, soils and land ecosystems

- No consequences for polluters
- Continued infrastructure development / investment
- Economic, social and environmental costs not understood
 - Growth being the default measure of success – Agenda of growth
 - Sustainable livelihoods needed
- How to implement change / resistance to change
- Resilience – preparedness for major events
- Food production systems – land-use – pastoral, urban density, loss of forests and wetlands
- Awareness / education – understand implications – break it down simply
- Regulatory change
 - Value on water
 - Sustainability taught in schools
 - Eco-design advisor on council
- Transportation
 - Transition from car dominant
- Lack of leadership and vision – Governance evolution – lack of fit for purpose governance
- Continuing increase of inbound visitor numbers
 - Emissions issue
 - Number of people = social issue – 34 visitors to 1 resident
- Lack of engagement and general apathy towards climate change

Table 9

- People need to be powerful in the planning process for this town
 - Define our economic growth model. Does it align with QLDC if not, let's leave QLDC
 - Implement participatory democracy
 - Citizens have greater influence than business people
 - Transport of people with small numbers compared to ???
 - Perpetual growth reversed
 - Outlaw commercial influence in local democracy
 - Reduce tourism

- Define ecocide law – give a value to all natural resources
- Define our economic model of growth limits
- No airport – be clear we don't want an airport
- Implement urgent change now to avoid further congestion later (car parking)
- Make cycling more user-friendly
- Clean air and water
 - Sustainable new farming practices not requiring max inputs and irrigation – no monoculture
 - Stop dairy conversions around Wanaka
 - Respect water resources
 - No more water consents. Review all current consents. No water bottling plants
 - Collect rainwater
 - Water quality to be cleaned up
 - Stop putting Diquat in our lake
 - Implement universal / community recycling to divert waste
 - Cattle pollution needs urgent regulation
- Housing
 - Encourage solar and grey water
 - Housing construction process – materials
 - Stop subdivision development
 - Growth – houses built for investment not need
 - Terraforming landscapes for more sections
 - Restrict house size – allow smaller houses and sections
 - Council planning is too geared to make it easy for big business and hard for small players
 - Allow relocatable “to code” houses on new subdivisions
 - Population growth