

# **Sustainability Parameters and Checklist Questions in the CASET**

## **Parameters**

### **Economy**

1. Economic return as determined through cost-benefit analysis
2. Expenditure on primary, secondary and tertiary education as a ratio to GDP
3. Gross domestic fixed capital formation as a ratio to GDP
4. Difference between percentage change in the upper quartile of after-tax household income and percentage change in the lower quartile of after-tax household income
5. Number of jobs created / lost
6. Ratio of research and development expenditure to GDP

### **Natural Resources**

7. Quantity of construction waste requiring final disposal per capita
8. Consumption of energy per unit of output (GDP)
9. Consumption of energy per capita
10. Volume of freshwater supplied and consumed per capita
11. The total remaining landfill capacity
12. Percentage of demand met by locally-derived freshwater resources
13. Quantity of municipal solid waste requiring final disposal per capita
14. Total area of area-based significant landscape features
15. Total number of point-based significant landscape features and old and valuable trees

### **Biodiversity**

16. Area protected and managed for conservation
17. Area of habitats of high ecological value

### Leisure and Cultural Vibrancy

18. Percentage of population living within districts with a shortfall of required provision of open space

### Environmental Quality

19. Quantity of carbon dioxide emitted per year
20. Composite index for criteria air pollutants based on percentage of the Air Quality Objectives
21. Percentage of population exposed to excessive noise
22. Composite index for marine water quality pollutants based on percentage of the Water Quality Objectives
23. Percentage of EPD's river monitoring stations ranked "Excellent" or "Good" using the EPD's Water Quality Index
24. Composite index for toxic air pollutants based on percentage of acceptable risk

### Mobility

25. The cost of road-based freight transport, the cost of charges and operating costs as a ratio to GDP
26. Average travel distances: the distance in kilometres traveled by passengers during morning peak by all major groups of transport modes
27. Average network speed: calculated as total passenger kilometres divided by total passenger hours

## Checklist Questions

### Health and Hygiene

1. Will the proposal bring about effects on the physical health (such as an increase or a decrease in communicable diseases, cancer and respiratory diseases due to a change in air pollutant levels etc) and / or the mental health (such as changes affecting people's adaptability / psychological / mental well-being) of the community?
2. Will the proposal bring about potentially adverse health effects likely to be disproportionately greater for the vulnerable groups in the community (including elderly, children, the low income group, the homeless, pregnant women and disabled persons)? If yes, which groups?

### Natural Resources

3. Is the level of waste reduction and recycling activities in Hong Kong expected to increase, decrease or remain unchanged with the proposal?
4. Is the amount of power generated from renewable sources in Hong Kong's electricity supply expected to increase, decrease or remain unchanged with the proposal?

### Society and Social Infrastructure

5. Will the proposal possibly affect the opportunities of groups such as the elderly, children, youth, women and low income group, to participate in society and to fully develop themselves and not to be discriminated because of health, gender, nationality, religion, race, family status, financial or other constraints?
6. Will the proposal possibly affect the safety net (in terms of social welfare and housing) for the disadvantaged groups such as the elderly, the infirm, the unemployed, the disabled and families with single parent?
7. Will the proposal possibly affect the will and ability of the disadvantaged, the poor and the unemployed to achieve self-reliance?
8. Will the proposal possibly affect family relationship and resilience, as well as family functioning?
9. Will the proposal possibly affect people's (including youth's) sense of belonging to society and / or their involvement in the community (including voluntary work) as well as social cohesion, mutual support and networking?
10. Will the proposal possibly affect the waiting time for public rental housing?
11. Will the proposal possibly affect the rental level in the private housing market?
12. Will the proposal possibly affect the average living space per person?
13. Will the proposal possibly affect the number of people residing in inadequate

housing?

14. Will the proposal possibly affect access of people to further education?

#### Leisure and Cultural Vibrancy

15. Will the proposal possibly affect the level of provision, quality and / or variety of sports, recreational or cultural facilities?

16. Will the proposal possibly affect people's participation in sports, recreational, cultural or local traditional activities?

17. Will the proposal possibly affect people's opportunity to express themselves creatively or culturally in sports, recreational or cultural activities?

18. Will the proposal possibly affect any archaeological site or buildings of cultural heritage?

19. Will the proposal possibly affect the continuity of any intangible cultural heritage or local culture within the society?

20. Will the proposal possibly affect the smooth and harmonious establishment of cultural diversity within the community?

#### Environmental Quality

21. Will the proposal bring about mitigation, adaptation and / or resilience measures in relation to climate change impact?

#### Biodiversity

22. Will the proposal affect the connectivity of natural or semi-natural habitats, or bring about enhancement of biodiversity in developed areas?

23. Will the proposal affect the provision of major/essential ecosystem services?