





## 3.6 Infrastructure and services



### 3.6.1 Strategic outcomes

- (a) The Fraser Coast is serviced by efficient and reliable essential infrastructure networks that promote community wellbeing and economic development.
- (b) Coordinated planning and delivery of infrastructure and services facilitates growth that reflects the pattern of settlement, provides for the efficient and best utilisation of public resources, efficiently meets community's needs, preserves corridors and sites for essential infrastructure services and minimises impacts on the environment.
- (c) Water infrastructure, including water supply, sewerage and stormwater, is provided and managed on a total water cycle basis to maximise the efficient use of water resources and maintain the health and wellbeing of the community and the environment.
- (d) Efficient and reliable energy and telecommunication infrastructure meets the needs of the community. The use of renewable energy sources and supplies is promoted.
- (e) Waste management and recycling maximises the efficient reuse of finite materials, limits waste to long term disposal and minimises impacts to the environment.
- (f) Emergency services are provided to respond to natural hazards and unplanned events and to support the community's safety.

## 3.6.2 Elements and specific outcomes

### 3.6.2.1 Element 1 Coordinated planning and delivery

It is important that the planning and delivery of infrastructure aligns with the pattern of settlement for the Fraser Coast, meets the needs of the community and is provided in a logical, timely, efficient and sustainable manner. In addition, major infrastructure corridors and sites should be identified and afforded protection to maintain the operation and efficiency of existing and planned networks.

#### Specific outcomes

- (a) As far as practicable, infrastructure provision in urban expansion areas and in infill/redevelopment areas is provided ahead of, or in parallel with, new development.
- (b) Development occurs in an orderly manner and logical sequence so as to:-
  - (i) maximise the use and capacity of existing infrastructure; and
  - (ii) maximise the efficiency of new infrastructure provision.
- (c) Strategic sites and corridors for existing and proposed infrastructure services, including those elements identified conceptually on **Strategic Framework Map 3 (SFM-003) and 3a (SFM-003a) (Transport and infrastructure)**, are protected and secured to support the long-term essential infrastructure needs of the Fraser Coast community.
- (d) Development contributes to a fair and equitable share of the cost of providing infrastructure.
- (e) Infrastructure networks, corridors, services and facilities are:-
  - (i) planned and used as efficiently as possible and co-located wherever practicable;
  - (ii) designed to accommodate changes in use and densities over time in urban expansion areas and infill/redevelopment areas;
  - (iii) protected from urban encroachment and other incompatible land uses to ensure their continued operation and viability;
  - (iv) designed to have regard to the landscape character and scenic amenity of the Fraser Coast and sense of place of the locality;
  - (v) designed to incorporate significant landscaping where appropriate;
  - (vi) located and designed to promote sound urban design outcomes, integrate with the landscape, protect environmental values and ecological processes; and
  - (vii) designed to be resilient in the event of natural disaster.
- (f) The development and supply of renewable energy at the regional, local and individual scale is enabled.

## 3.6.2.2 Element 2 Water cycle management

The planning and delivery of water, wastewater and stormwater services across the Fraser Coast should be viewed as an integrated water cycle management system. Such an approach offers the opportunity to reuse and recycle to maximise the availability of water as a precious and finite resource. Development needs to incorporate effective water cycle management to ensure the health, safety and wellbeing of the Fraser Coast community and the environment.

### Specific outcomes

- (a) Water Supply Catchment Areas within the Fraser Coast Region are protected and managed to ensure the quantity and quality of raw water supply meets the current and future demand of the Fraser Coast.
- (b) The water resources of the Fraser Coast are utilised in an efficient and sustainable manner and are protected for future use, including through realising opportunities to reuse and recycle stormwater and treated wastewater.
- (c) Development in the urban area is connected to the reticulated water supply and sewerage systems, where available.
- (d) Development in rural residential and rural areas has an on-site potable water supply (where connection to the reticulated water supply system is not available) and on-site effluent treatment and disposal systems that protect human health, amenity and the natural environment.
- (e) Stormwater and wastewater is treated and managed in a manner that maintains the quality of receiving waters. This includes water sensitive urban design (WSUD) principles being effectively integrated into the layout and design of development to provide for the collection, treatment and conveyance of stormwater.

## 3.6.2.3 Element 3 Energy and telecommunication infrastructure

The region is well serviced by essential energy infrastructure. Energy use occurs in a more sustainable manner, through development maximising opportunities to incorporate energy efficiency alternatives reducing dependency on energy from non-renewable sources. Access to efficient, modern and high quality telecommunications and information technology infrastructure helps connect the dispersed communities of the Fraser Coast and provides access for the region to State, National and Global economies.

### Specific outcomes

- (a) The Fraser Coast is serviced by energy and telecommunication infrastructure that:-
  - (i) utilises the latest standards in technology;
  - (ii) meets the needs of the community; and
  - (iii) minimises environmental impacts.
- (b) Development in urban expansion areas provides land for infrastructure, including land for sub-stations and transmission lines, required to service or traverse the area.
- (c) Renewable energy projects are encouraged where they do not cause significant environmental, social or amenity impacts.
- (d) Energy and telecommunication infrastructure is:-
  - (i) located and designed to ensure its safe operation;
  - (ii) integrated in a manner which does not unduly impact on the landscape qualities of the area; and
  - (iii) co-located wherever possible.

- (e) Demand for centralised energy generation and infrastructure is minimised through development incorporating energy efficiency design principles and maximising the use of renewable and sustainable energy supplies and sources.
- (f) The provision of high speed internet and telecommunications is facilitated.

## 3.6.2.4 Element 4 Waste management and recycling

The projected population growth of the Fraser Coast will generate an increased volume of waste and increased pressure to upgrade or provide new waste management and recycling services and facilities. Minimising the production of waste and maximising opportunities for reuse and recycling will help to alleviate these pressures and enhance the overall sustainability outcomes of the Fraser Coast.

### Specific outcomes

- (a) Development incorporates measures to reduce waste generation and to maximise reuse and recycling of materials during the construction and operational stages of development.
- (b) To protect the function and long term expansion opportunities of landfill and waste transfer station facilities, including those shown conceptually on **Strategic Framework Map 3 (SFM-003) and 3a (SFM-003a) (Transport and infrastructure)**, appropriate separation distances and buffers are provided and maintained to avoid encroachment from incompatible land uses and activities.

## 3.6.2.5 Element 5 Emergency services

The provision of adequate emergency services and infrastructure is necessary to support the planned growth of the Fraser Coast and promote community safety and wellbeing.

### Specific outcomes

- (a) Emergency response facilities and services are provided to meet the needs of the community.
- (b) Development assists to provide emergency response facilities and services in appropriate locations.
- (c) The location and design of new development minimises the potential demand for emergency services while also providing for the timely and efficient operation of emergency services, including during and after natural hazard events.

### 3.6.3 Relevant strategic framework maps

**Strategic Framework Map 3 (SFM-003) and 3a (SFM-003a) (Transport and infrastructure)** conceptually identify elements of the strategic framework as relevant to the infrastructure and services theme, including:-

- (a) major water supply infrastructure;
- (b) major sewerage and effluent reuse infrastructure;
- (c) major energy infrastructure; and
- (d) major waste management infrastructure sites.









Maps SFM-003 and SFM 003a  
**Transport & infrastructure**

