

Tasmanian Infrastructure Strategy

Implementation Report
February 2012

TASMANIAN INFRASTRUCTURE STRATEGY IMPLEMENTATION REPORT – FEBRUARY 2012

TRANSPORT

WATER

ENERGY

DIGITAL

PLANNING

COMPLETED

Viable & Sustainable Infrastructure

- Midland Highway Partnership Agreement
- Undertake a Brooker Highway Transport Plan
- Contribute to National Ports Strategy
- Pricing review (Tasports)
- Develop Urban Travel Demand Model
- Develop Regional Freight Strategies
- Assess revitalisation of Hobart Port as world gateway to Antarctica and Southern Ocean
- Ongoing development of State road access program as it relates to: Performance Based Standards; Safer & more efficient heavy vehicles - quad axle (with dependencies on IAP)

Efficient Infrastructure Delivery

- Develop 10 year rail strategy

CAPITAL PROJECTS

- Construction of the Brighton Transport Hub
- Midland Highway safety package (2+1 wire rope) – Australian Government funded at Constitution Hill
- Kettering precinct master plan
- Assess Richmond Heavy Vehicle link road
- Lakes Secondary Road – assess sealing sections
- Rail Maintenance \$4m – funds used for purchase of railway from PN
- Kingston Bypass
- Rail Rescue Package \$78m

Viable & Sustainable Infrastructure

- Urban Water Pricing Principles (COAG), once finalised and endorsed will assist in ensuring the cost recovery and reinvestment in infrastructure
- The regional urban water and sewerage corporations to submit price and service plans to the regulator for the first price determination. The plans will outline infrastructure requirements and planning

CAPITAL PROJECTS

- Whitmore, Sassafras/Wesley Vale and Headquarters Road Dam irrigation schemes
- Queenstown Water Treatment Plant
- Longford to Cressy Water Main
- Distillery Creek Water Treatment Plan Upgrade
- Bicheno Water Storage Dam
- Swansea Drinking Water Supply Upgrade
- Queechey Sewer and Pump Station Upgrade

Effective Governance & Decision Making

- Tasmania has introduced a market based framework for energy planning while identifying and removing barriers to efficient investment

Viable & Sustainable Infrastructure

- The Tasmanian Natural Gas Project has established an integrated natural gas transmission, distribution and retail industry that connects Tasmanian to the Australian natural gas network. The Tasmanian Natural Gas Project ultimately saw gas become available to 42,000 homes and businesses and was facilitated by a State Government funding contribution of \$42million
- Undertake wedges analysis for carbon abatement
- Establish LNG site at Westbury

Efficient Infrastructure Delivery

- Tasmania is transitioning to a national regulatory framework for transmission and distribution network planning which includes the application of rigorous regulatory tests for distribution and transmission investment and is administered by the Australian Energy Regulator

Leveraging our Natural Advantage

- Tasmanian Renewable Energy Industry Development Board established to investigate options for taking advantage of renewable energy resources
- Investigate development of a second electricity interconnector between Tasmania and the mainland to capitalise on the commercial value of Tasmania's renewable energy assets and make a significant contribution in the national effort to meet a carbon constrained future [Decided it was not feasible]

Co-ordinated Infrastructure Planning

- Consultation with local councils on streamlining planning processes for National Broadband Network

Effective Governance & Decision Making

- Establish diverse stakeholder advisory group to provide ideas and feedback to government (Digital Futures Advisory Council)
- Apply standards and outputs from the National Schools interoperability framework
- Through ICT Policy Board, develop and implement a strategy, including investment priorities, for the use of digital technologies across the government

Viable & Sustainable Infrastructure

- Develop and implement new Service Tasmania Online public interface (Online shop)
- Implement a state-wide digital imaging management system to support storage and retrieval of all medical images electronically and available at all sites across the State
- Use telehealth videoconferencing & other technology to increase the availability of health services in regional and rural communities [Video Conferencing deployed across N, NW, S and King Is, Flinders Is, Cape Barren Is and Bruny Is]
- Establish Flexible Learning School to deliver distance education and e-learning State-wide using web 2 technologies delivered over broadband
- Implement Service Tasmania client update service for advising Government of change of address

Effective Governance & Decision Making

- MOUs with three regional groups to complete regional land use (settlement) strategies
- Establish advisory committees to inform development of regional land use strategies

Co-ordinated Infrastructure Planning

- Complete regional land use strategies

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CAPITAL PROJECTS

- Transend Waddamana – Lindisfarne 220KV transmission line
- Burnie substation network transformer replacement
- Emu bay substation redevelopment
- Knights Road – Electrona transmission line replacement

CAPITAL PROJECTS

- Modernise governance of ICT to coordinate digital transformation of government (*Governance established/complete*)

COMPLETED

PLEASE NOTE:

- * Reporting on all initiatives with a 0-3 year implementation timeline (2010-2012)
- * Does not include initiatives completed prior to release of Tasmanian Infrastructure Strategy (February 2010)

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PLANNING

ON TRACK

Co-ordinated Infrastructure Planning

- Determine & implement optimal delivery model with Local and Australian Government for Tasmanian road network
- National reforms for improved network planning & investment coordination
- Undertake local area infrastructure planning in high growth areas & key industrial hubs
- Develop transport plans for major metropolitan areas
- Ongoing implementation of the Auslink Corridor Strategy (0-10)
- *Ongoing input into priority projects for Next Nation Building Program and Infrastructure Australia submissions * New*

Effective Governance & Decision Making

- Participate in national reforms to planning, governance and decision-making for infrastructure
- Expert advice to government on infrastructure priorities
- Embed WOG policies for climate change, social inclusion, economic development, budgetary, Tasmania Together in decision making process
- Enhance & centralise access to data and information
- Development of models to support improved infrastructure forecasting & demand analysis
- Improved access to key outputs & information from the Freight Demander Survey & Greater Hobart Household Travel Survey to inform decision-making, including at the local level

Viable & Sustainable Infrastructure

- Assess Domain interchange to Risdon Rd upgrade
- Review State Ports Strategy
- National regulation for maritime safety
- Develop & implement Intelligent Transport

Effective Governance & Decision Making

- Develop a price and service standard framework to identify communities that are entitled to various levels of service
- Continue development of statutory Water Management Plans to include all catchments of high water demand

Viable & Sustainable Infrastructure

- Address boiled water alerts for Tasmanian communities
- Farm Water Development Plans provide analysis of on-farm irrigation water needs and ensure broader environmental sustainability of irrigation development
- Identify and prioritise water and sewerage network extension including those projects required to address service and compliance
- Metering of all significant rural water use to enable auditing of water taken against water access entitlements

Efficient Infrastructure Delivery

- Regional corporations will help to consolidate urban networks and service delivery
- Continue to develop community managed irrigation schemes that optimise the delivery of water to farming enterprises
- Introduction of effective asset management strategies by corporations – monitored and enforced by the Economic Regulator
- Increasing capacity of water users to manage irrigation schemes

Leveraging our Natural Advantage

- Implementation of Irrigation Water Infrastructure Program informed by sound knowledge of resource availability and demand for water taking into account climate change
- Clear recognition of opportunities for water development, given reliable water yields, particularly during winter
- National recognition of the scope for

Co-ordinated Infrastructure Planning

- Local electricity transmission planning activities will be integrated with the Annual National Transmission Planning Statement produced by the National Transmission Planner
- Work with planning and environmental authorities to ensure there is a streamlined and clearly defined process for the development of renewable energy projects

Viable & Sustainable Infrastructure

- Investigate options to facilitate embedded renewable energy generation

Efficient Infrastructure Delivery

- Improve the feed-in price for embedded energy on King and Flinders Islands

CAPITAL PROJECTS

- Aurora - \$60m Eastern Shore upgrade
- Aurora - Ongoing investment & improvement to system capacity, reliability & security for Hobart CBD, the RHH, Nth Hobart, the Wharf area & Salamanca
- Aurora - \$62m in Kingston/Channel area for installation of major distribution infrastructure including establishment of a new zone substation and associated sub-feeders near Browns Road
- Aurora - \$35m in Greater Launceston area
- *Transend - Norwood-St Leonards-Mowbray 110 kV cable *New*
- *Transend – George Town substation redevelopment and upgrade * New*
- *Transend – Rosebery Substation augmentation * New*
- Hydro - Musselroe Wind Farm
- Bass Strait Islands – reduction of diesel dependence by 50% & greenhouse emissions by 70% through wind, resistor & control system project for Flinders Island, more wind capacity & integrated technology on King Island & bio-fuel substation for both systems

Co-ordinated Infrastructure Planning

- Establish industry and community partnerships for new digital infrastructure (eg. Connect Any Student Any School is a partnership with the Catholic (CEO) and Independent (IST) sectors using the Virtual Learning Environment (DoE has 16 schools participating, CEO 3 schools and IST 3 schools)
- Determine how to facilitate shared access to trenches and easements for road/electricity /telecommunications/gas

Viable & Sustainable Infrastructure

- Implement patient and client management systems across mental health and primary health services
- Develop National Broadband Network participation plans for the health and education sectors
- Make Service Tasmania Online accessible from mobile services
- Further increase in educational offerings in remote and regional Tasmania through the use of new technologies and ubiquitous broadband
- *SenseT – is an initiative that will bring together different sensors into a single, state-wide network that combines historical, spatial and real-time data and exploits the capabilities of the NBN to drive innovation and sustainable social, environmental and economic change. Contributors include the Government, UTAS and the Tasmanian CSIRO ICT Centre* New*
- Trial smart grid technology in selected towns [No longer listed as a single initiative, now incorporated under the umbrella of the SenseT Program]

Housing Tasmania (DHHS) is conducting a power usage smart grid trial with public housing tenants

Aurora has completed its business case on a

Co-ordinated Infrastructure Planning

- Translate regional land use strategies into updated planning schemes

Effective Governance & Decision Making

- Introduce enforcement provisions for planning schemes
- Review State Policy framework
- Introduce State of Region reporting – focus on development, infrastructure, natural resources
- Enhance data collations – identify key indicators

Viable & Sustainable Infrastructure

- Assist with development of strategic asset management system – sustainable funding

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ON TRACK

- System Statewide Plan for transport system
- Review Transport Policy
 - Develop Tasmanian Freight Strategy
 - National regulation for heavy vehicles
 - Second annual Road Safety Action Plan was launched in August 2011
 - National regulation for rail safety
 - Implementation of the Tasmanian Urban Passenger Transport Framework
 - Campaign to promote public debate on and encourage use of alternative forms of transport including:
 - State Government Carpooling website
 - Travel Smart Program
 - Intro of workplace travel plans
 - Marketing campaign for travel by public transport
 - Progress implementation of key passenger transport initiatives, including high-frequency bus corridors, transit-oriented development, park and ride and local walking and cycling initiatives
 - Investigate urban transit corridors in Hobart, incorporating high frequency bus services, on-road priority and upgraded supporting infrastructure
 - *Trial Wi-Fi services on selected urban fringe and regional bus services* New*
 - *Improved urban fringe bus services* New*
 - Investigate redevelopment of bus interchanges
 - Assess introduction of real time passenger information
 - Investigate public transport priority measures on priority corridors
 - Assess Cycleways
 - High frequency bus services – initial focus Claremont to Sandy Bay and South Hobart to Howrah

- sustainable irrigation development at the same time that agricultural production in the Murray-Darling Basin is facing water availability pressures
- Improving capacity of farmers to use irrigating water efficiently and sustainably
 - Tas Institute of Agricultural Research (TIAR) leading research, development and extension into land capability, high value crops and value chains
 - Transitioning from lower value land use to higher value land use through improved water availability and reliability

CAPITAL PROJECTS

- Upgrade water supply to Spreyton/ Melrose
- Strahan Water Treatment Plan Upgrade
- Currie Water Supply Upgrade
- Burnie to Cam River Water Main
- *Forth – Palooona Water Main * New*
- Forth Water Treatment Plan Upgrade
- *Grassy/Currie Water Supply System Rationalisation and Compliance Upgrade *New*
- Rosebery Water Treatment Plan Upgrade
- *Waratah Water Treatment Plant Upgrade *New*
- Rationalisation of Wynyard and Somerset Wastewater Treatment Plants
- Rationalisation of Port Sorell, Latrobe and Devonport Wastewater Treatment Plants
- Rationalisation of Turners Beach and Ulverstone Wastewater Treatment Plants
- *Cradle Valley Wastewater Treatment Plant Upgrade* New*
- *North Caroline Street Sewage Pump Station * New*
- Grassy Water Treatment Plant Compliance Upgrade
- *Branxholm Water Treatment Plant * New*
- *Derby Water Treatment Plant * New*
- Campbell Town Water Treatment Plant
- *Fingal Water Treatment Plant * New*
- Scamander Water Treatment Plant
- Westbury/Hagley Water Treatment Plant

smart meter trial as part of the NBN and has concluded, at this time, not to proceed. However, Aurora will look to work within the SenseT Program to trial smart meter initiatives

Efficient Infrastructure Delivery

- Health and education services delivery trials

Leveraging our Natural Advantage

- Attract first national digital service delivery trial to Tasmania
- Establish digital technology demonstration sites as part of community education [No longer listed as a single initiative, now incorporated under the umbrella of the SenseT Program]

[DoE pursuing NBN connectivity for schools once networking requirements are able to support such connectivity]

CAPITAL PROJECTS

- *Business Online Services (BOS) initiative as part of the COAG agenda agreed July 2009 * New*
- *Digital Ready initiative – the Digital Ready project aims to improve small business operators' participation in the digital economy by providing targeted knowledge, skills and advice * New*
- Attraction to the State of large-scale, innovative demonstration pilots
- *NBN rollout 200,000 premises within the NBN optical fibre footprint within 5-7 years; wireless connections to be completed by the end of 2015 and interim satellite connections will become available from late 2011 * New*
- *Digital Communities Initiative - The Australian Government recently announced significant funding for its Digital*

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Efficient Infrastructure Delivery

- Participate in the development of national initiatives including: commercial provision of infrastructure; & cost reflective pricing
- National Rail Productivity Reforms
- Passenger transport behavioural change measures, including work and school-based travel plans
- Assess Burnie Port upgrade to prime bulk goods port with roll on-roll off capacity

Leveraging our Natural Advantage

- Demonstration of local level accessibility through affordable housing initiatives
- Continued focus on opportunities to improve accessibility at the local level

CAPITAL PROJECTS

- Brighton Bypass
- Bagdad Bypass scoping
- New Bridgewater Bridge scoping phase
- North East Freight road upgrades
- Upgrade Murchison Highway planning
- Community Roads Project
- Improvement to Mount Black road section planning
- Brooker Highway congestion measures – Traffic modelling and concept design (addressed in Brooker Highway Transport Plan)
- Capital rail upgrades:
 - Hobart to Western Junction
 - Western Junction to Burnie
 - Melba Line
 - Fingal Line
 - Boyer Line
- Provide high quality bus stops and waiting areas
- Tasman Highway to Hobart Airport – upgrade of intersections planning – Commenced in 2011/12
- Bell Bay Port rail – Realignment of rail \$9.5m
- Burnie Port rail access upgrade
- Assess Batman/Frankford/East Birrallee freight route upgrade

- Lilydale Water Supply Main
- Devon Hills Water Supply Main
- Greater Launceston Wastewater Treatment Plant * **New**
- South East Tasmanian Recycled Water Scheme
- Taroona Wastewater Treatment Plant Integration
- Huon Valley Regional Water Scheme
- Berriedale Water Main Duplication
- Margate Water Main Duplication
- Lenah Valley Water Supply Augmentation
- Tolosa Dam Decommissioning * **New**
- Statewide Water Meter Roll-out and Replacement Project – majority of works in the Southern region of State
- Blackmans Bay Wastewater Treatment Plant Compliance and Growth Upgrade ***New**
- Kingborough Wastewater Treatment Regionalisation Program
- Lauderdale Sewerage Scheme
- Salamanca Place Sewerage Upgrade ***New**
- Wastewater Treatment Plant Compliance Upgrades for Deloraine, Sheffield, Stanley, Ridgley, Strahan, Queenstown, Ti Tree Bend, Hoblers Bridge, Ranelagh, Geeveston, Orford, Swansea, Bicheno, Dover, Gretna, Maydena, Wynyard, Pelican Point, New Norfolk, Cambridge, Beaconsfield, Bridport and Tullah
- Reservoir Roofing Program
- Irrigation Schemes – St Pauls catchment (formerly the Meadstone Dam project), Winnaleah, North East – Upper Ringarooma, Midlands, South East, suite of Forth Irrigation Schemes, Dial Blythe, Lower South Esk, Swan River
- Small Town Boil Water Alert Removal Program: Ouse, Wayatinah, Gretna, Hamilton, Colebrook, Judbury and Mountain River

*Communities Initiative. This will create Digital Hubs in the first 40 NBN connected communities. These will enable local residents to experience NBN-empowered services and technology and also access education and training to learn skills required to participate in the NBN-empowered digital economy * **New***

- **Digital Enterprise Initiative** to help SMEs and community organizations in these communities to benefit from the NBN. The government will be working with the Australian Government to maximize the benefits to Tasmania* **New**

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DELAYED/UNFUNDED

Effective Governance & Decision Making

- Review Road and Jetties Act (0-3) (5-10)
- Initiation of future household travel surveys in Tasmania's major urban areas (0-3) (Unfunded)

Viable & Sustainable Infrastructure

- Develop rail access framework (1)(3-5)
- Assess funding models to get long term road maintenance on a sustainable basis (0-3) (3-5)
- Assess point to point speed enforcement on highways. (0-3)(Delayed - Business case should be finalised by end March 2012)
- Develop climate change strategy for transport (0-3)(3-5)
- Assess potential for alternative fuel source for buses(0-3)(Delayed)
- Establish the Urban Passenger Transport Advisory Group (0-3)(Delayed)
- Develop strategy to enhance bus services to improve patronage (0-3)(Delayed)
- Develop approach to maximise efficiency of bus corridors (0-3)(Delayed)
- Develop public education strategy to “move minds” from traditional thinking of transport to a sustainable model (0-3)(Delayed)
- Assess bus priority measures (0-3)(3-5)
- Ongoing development of State road access program as it relates to:
 - Intelligent Access Program (0-3) – DIER communicating with Industry on ways to facilitate introduction when required

Efficient Infrastructure Delivery

- Provision of strategic cycle and pedestrian linkages and supporting infrastructure and information (0-3)(Unfunded)
- Assessment of contemporary business models for road infrastructure delivery to a more commercial focus to public infrastructure delivery in line with national reforms (0-3)(3-5)
- Develop principles/objectives of fair network access & pricing framework (0-3)(3-5)

Effective Governance & Decision Making

- State Water Plan integrating urban and rural water use

CAPITAL PROJECTS

- Shannon Clyde Irrigation Scheme

CAPITAL PROJECTS

- Transend - Tungatinah substation redevelopment (0-3)(3-5)

Viable & Sustainable Infrastructure

- Establish systems to improve hazard and emergency management through access to combined spatial data – incorporated in the Spatial Information Foundations Project & specifically by one of its components: the Common Operating Picture (COP) which is due for delivery in 2013

CAPITAL PROJECTS

- In-home health and education services - these initiatives have been referred to the Digital Futures Advisory Council

Effective Governance & Decision Making

- Review Projects of State Significance framework [Not in TPC Business Plan for 2011/2014 due to lack of resources. To be initiated if resources become available]

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Co-ordinated Infrastructure Planning

- Review Northern Integrated Transport Plan (0-3) (3-5)
- Review Cradle Coast Integrated Transport Plan (0-3) (3-5)
- Develop the Greater Launceston Metropolitan Passenger Transport Plan (0-3) (3-5)[Expected completion 2013]

CAPITAL PROJECTS

- Brooker Highway – assess Domain interchange to Risdon Road upgrade(5-10)
- Capacity (realignment) improvements on the main north-south rail line and at Rhyndaston (Project Proposal Report currently under development to redistribute funding to remainder of the network)
- Expansion of Bell Bay Port. Work continuing on the Ports Strategy in light of recent loss of container services into Bell Bay (5-10)
- Hobart Port Refurbishment (5-10)

DELAYED/UNFUNDED

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Deleted

- **Divest Devonport Airport** – Not Applicable any longer as Tasports are retaining the airport
- **Identify clear infrastructure responsibilities within Government** – Captured within specific initiatives and projects, not a specific item
- **Tourism Infrastructure Investment Strategy** – Part of broader approach to enhancing tourism
- **Hydro - 1000GWh program** – Hydro advised this is no longer a specific program
- **Meadstone Dam Project** – Now referred to as St. Paul catchment
- **Investigation into wind farm at Robbins Island and Jims Plain on the NW coast** – Have not heard from developer for couple of years
- **Develop GPS Statewide Plan** - There is no ongoing plan to further develop a state-wide GPS network. The current combination of standard vehicle navigation and tracking systems using GPS / GNSS and the commencement of the OmniSTAR CORS network enabling enhanced GNSS positioning and navigation are deemed adequate

Should not have been in the initial report as they were 3-5 or 5-10 year initiatives (not 0-3)

- Implement a consistent concessions policy for urban and non-urban public transport (3-5)
- Risk assessment of school bus routes (3-5)
- Investigate opportunities to better coordinate the funding and delivery of services to the public and community sectors (3-5)
- Redevelopment of bus interchanges (5-10)
- Develop headworks charging regime (3-5)
- Review Road Safety Strategy (3-5)
- Review Road Safety Strategy (5-10)
- Construction of additional Bass Strait optic fibre cable within 5 years ~~(3-5)~~(5-10)

*New

- *National Power – Cattle Hill wind farm (3-5)*
- *Transend – Creek Road substation redevelopment (3-5)*
- *Transend – Palmerston substation redevelopment (3-5)*
- *Transend – George Town substation redevelopment and upgrade (3-5)*



Tasmania
Explore the possibilities

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