

Natural Capital Accounting & Ecosystem Service Valuation

A look at how these tools can support better land management for the decarbonisation agenda

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Key insights

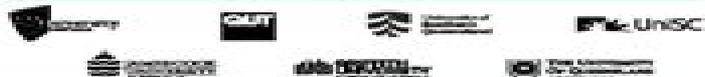
- Protecting, restoring, and managing lands in Queensland is essential to achieving the state's ambitious decarbonisation goals.
- Ecosystems are valuable carbon stocks and sinks that provide multiple other ecological and human benefits. Regenerating and revegetating land provides further opportunity for decarbonisation.
- Ensuring carbon reduction policies have environmental integrity requires robust accounting of environmental stocks, flows, functions, services, and benefits.
- Natural capital accounting (NCA) and ecosystem service valuation (ESV) trace the stocks and flows of natural resources in ecosystems and calculates both an ecological and monetary value.
- Used appropriately, ESV and NCA can support decarbonisation decision-making by ensuring the multiple benefits of ecosystems are recognised, spatially identified, managed, and valued.
- Land managers can use ESV and NCA to assess and demonstrate the ecological and economic value and benefit of their decarbonisation and nature-positive land management practices.
- NCA and ESV are evolving rapidly. The Decarb-Hub can provide policymakers with current knowledge to ensure these tools are used effectively.



The Queensland Decarbonisation Hub is funded by the Queensland Government and partnered with Queensland's leading universities.



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Why is this important?

Protecting Queensland's ecosystems and the carbon they contain is a quick win for supporting Queensland's ambitious decarbonisation agenda while supporting environmental integrity. However, land-based carbon stocks and sinks such as forests, wetlands, other vegetation and soils are under increasing and multiple threats including rapid urbanisation, resource extraction, invasive species, and the impacts of climate change (heat, drought, flood, and fire). The combined urgency to combat both rising carbon emissions and ecosystem degradation is an opportunity for the Queensland Government and landholders to address multiple social and environmental issues through maintaining and restoring environmental integrity.

For decarbonisation policies and strategies directed at land use to be effective and resilient, they must manage human disturbance while balancing economic livelihoods to ensure and protect environmental integrity. Environmental integrity is essential for ensuring the resilience of ecosystem-based carbon stocks, building public and industry confidence in carbon and biodiversity finance (see Carbon Farming & nature repair markets policy brief) and enabling robust planning and decision-making criteria.

Ultimately, environmental integrity needs to effectively recognise, value and maintain natural ecosystems as close to their natural state within policymaking. To this end, natural capital accounting (NCA) and ecosystem service valuation (ESV) are two processes that enable a more systematic and rigorous assessment of the benefits of conservation and regeneration in land use decision-making. These tools are rapidly evolving and becoming more widespread, and it is essential for policy makers to understand their use, methodology and limitations.

This policy brief outlines the basis of NCA and ESV, how they can be used appropriately to support decision-making, and how they are being used in Queensland.

Environment Natural Systems And Development An Economic Valuation Guide

Libby Bassett



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web automatic switching between power sources abb offers automatic transfer switches ats from 40 to 1600 amperes in range they have the features and functionality that makes them suitable for diverse applications industrial plants

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web transfer switch is available in several different control configurations to meet the requirements of your load transfer application automatic transfer switches feature microprocessor based control technology for easy operation and robust high contact force design otpc automatic transfer switches 1008 ics10

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web the automatic transfer switch ats is used to transfer the load among several power sources to ensure continuous operation of load ats is required in developi design and analysis of switching in automatic transfer switch for load transfer ieee conference publication ieee xplore

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web the compact ats range includes automatic transfer switches from 40 to 125 amperes iec and will be in two versions otm c20d for network network application with fixed version with pre defined delay times and voltage thresholds

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web introduction an automatic transfer switch ats is a device that allows safe transfer of electricity from a primary source usually an electric utility grid to a backup source such as an emergency or standby generator

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web the spb family of transfer switches covers applications ranging from 600 to 4000 amperes through 600 vac in automatic or non automatic configurations open or closed transition standard or service entrance

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web automatic transfer switch standard speed specification bandwidth requirements do not scale linearly cisco nexus 3016 switch data sheet cisco may 10th 2018 the cisco nexus 3016 switch is a 40 gigabit ethernet switch platform with high performance ultra low latency and line rate layer 2 and 3 switching

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web as specified herein the sts will typically transfer in less than 1 4 cycle depending on the load phase difference between sources and type of source failure the static transfer switch is fuseless and consists of six pairs of silicon controlled rectifiers scrs connected in an ac switch configuration

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web when you choose the right automatic transfer switches to meet the needs of your commercial building you ll gain power reliability a generator relies on a manual or automatic transfer switch to function properly many businesses install an automatic transfer switch which can save a lot of time and improve the generator s functionality

electrical standard specifications university of washington - Apr 13 2023

web part 1 general 1 01 description automatic transfer switches ats styles and features consultant shall indicate pnp npnp and bis requirements here see the guidelines listed above 1 02 qualifications pre approved transfer switches

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web dec 10 2022 automatic transfer switches are awesome devices that let you seamlessly tap into your backup power without the need to do it manually if you currently live in a house equipped with solar panels then having an open or closed transition ats can make operations easier safer and more convenient this is especially true if your solar

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web transfer switches shall be closed transition make before break that will permit a transfer between two live sources that have a phase angle difference of 8 degrees or less no generator sources and 5 degrees or less 1 or 2 generator sources

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web automatic transfer switch ats molded case type guide spec 26 36 23 07 description guide specification for automatic transfer switches ats molded case type atc 900 controller all frame sizes up to 1000 a keywords eaton transfer switch guide specification last modified by santori lauren t company eaton corp

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web automatic transfer switch standard speed specification for use with 3800 series 4800 series padmounted vacuum fault interrupter gear for use with 3100 series 4100 series submersible vacuum fault interrupter gear

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web types of automatic transfer switches automatic transfer switches are available in three types compact ats cb ats and contactor ats where each type is discussed below compact ats the compact automatic transfer switch is also called a change over switch which is used for breaking short circuits currents

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web automatic transfer switch functional requirements the ats shall automatically transfer the load to the standby emergency generator in the event of a utility supply failure and return the load back to the normal utility supply upon restoration of normal utility power

automatic transfer switches ats power switch eaton - Mar 12 2023

web eaton s automatic transfer switches ats are ul 1008 listed for use in emergency legally required cops or standby power systems and designed to transfer critical electrical loads between preferred and alternate generator power sources the atss are available up to 5000a including service entrance and bypass isolation types

specification for states mfg automatic transfer switch - Oct 07 2022

web a provide automatic transfer switch ats with voltage 600v maximum amperage 3000a maximum interrupting rating 100ka maximum and number of switched poles 3 or 4 as shown on the plans