

Hibernation of the aquatic centre during COVID-19 period - Northmore Gordon

Canonical: <https://northmoregordon.com/news/hibernation-of-the-aquatic-centre-during-covid-19-period/>

Details:

Hibernation of the aquatic centre during COVID-19 period - Northmore Gordon Skip to content Live AU Certificate Prices Twitter LinkedIn-in Youtube Buy and Sell Global RECs Contact Search Carbon moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Climate Active Net Zero Roadmaps Carbon and Energy Strategy NGERS Reporting Carbon Health Check Grants and Programs Funding Energy Grants and Programs Funding Energy Audit & Assessments Energy Optimisation Compressed Air Services EEO Assessments (SG) Strategic Energy Sourcing Energy Procurement Virtual Environmental Manager Certificates Live Certificate Prices Funding Solar VEECs (VEU PBA) Measurement & Verification (VEU & ESS) ERF & Carbon Credit Registration Boiler Upgrades (VEU & ESS) Hot Water Systems (VEU & ESS) Deemed Certificates (VEU & ESS) moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Global Certificates Australian Programs Case Studies Articles Team More About Us Locations Contact Us Careers Articles Latest News Government Updates Accreditations Glossary Carbon moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Climate Active Net Zero Roadmaps Carbon and Energy Strategy NGERS Reporting Carbon Health Check Grants and Programs Funding Energy Grants and Programs Funding Energy Audit & Assessments Energy Optimisation Compressed Air Services EEO Assessments (SG) Strategic Energy Sourcing Energy Procurement Virtual Environmental Manager Certificates Live Certificate Prices Funding Solar VEECs (VEU PBA) Measurement & Verification (VEU & ESS) ERF & Carbon Credit Registration Boiler Upgrades (VEU & ESS) Hot Water Systems (VEU & ESS) Deemed Certificates (VEU & ESS) moREnewable100 (RECs & Offsets) Trade RECs & Carbon with us Global Certificates Australian Programs Case Studies Articles Team More About Us Locations Contact Us Careers Articles Latest News Government Updates Accreditations Glossary Carbon Close Carbon Open Carbon Carbon Our decarbonisation services help businesses transition to low-carbon operations and covers footprints, reporting, certificates, carbon solutions and net-zero Net-zero is a term meaning to get to zero emissions, there is no current standard on what getting to net-zero means. For governments a net-zero target is one that covers all scope 1 emissions in their jurisdiction. For business it usually covers scope 1 and 2 emissions, although some companies also include some scope 3 emissions. The Science Based Targets Initiative is currently working on a standard for companies. roadmaps, to reduce emissions moREnewable100 (RECs & Offsets) Reach Global Sustainability Goals with Renewable Energy Certificates and Carbon Offsets Trade RECs & Carbon with us Trade Local & International Environmental Attribute Certificates Climate Active Achieve Climate Active Carbon Neutral Certification Net Zero Roadmaps Identify opportunities and build achievable pathways Carbon and Energy Strategy Integrate your carbon and energy strategies NGERS Reporting National Greenhouse Emissions Reporting Grants and Programs Review the latest grants and programs Energy Close Energy Open Energy Energy We offers comprehensive energy services, focusing on efficiency improvements, cost reduction, monitoring, benchmarking and strategic sourcing for sustainable and positive environmental impacts Grants and Program Review the latest grants and programs Energy Audit & Assessments Identify cost and emissions reductions Energy Optimisation Metering & Monitoring, Feasibility Studies, EnMS and ISO50001, & Benchmarking Strategic Energy Sourcing Feasibility & Assessments: Renewables, PPAs or Certificates Compressed Air Services Air Compressor Leak Audits, Surveys and Benchmarking EEO Assessments (SG) Singapore Energy Efficiency Assessments Energy Procurement Navigate energy markets with confidence Virtual Environmental Manager Leverage our teams wide experience Certificates Close Certificates Open

Certificates Our Environmental Attribute Certificate services help businesses accelerate technology adoption, improve project ROI, and manage claims of renewable energy, energy efficiency and carbon offset 1 carbon offset = 1 tonne of CO₂-e avoided or removed from the atmosphere. Avoided emissions covers activities that alter behaviour that would have otherwise caused emissions such as energy efficiency improvements or avoided deforestation. Removal covers activities that permanently remove CO₂ from the atmosphere such as new forestry plantations, soil carbon improvement or carbon capture and storage.

Live Certificate Prices The value of certificates change day-to-day, check today's prices Solar VEECs (VEU PBA) VEU PBA for Large-scale Solar Measurement & Verification (VEU & ESS) M&V; for Large C&I; Efficiency Projects (VEU PBA & ESS PIAM&V;) BESS Calculator Estimate the Peak Reduction Certificate revenue available to your NSW battery project in minutes ERF & Carbon Credit Registration ACCUs for Emission Reduction Projects Boiler Upgrades (VEU & ESS) NSW & VIC Boiler Rebates REC Registration (I-RECs & LGCs) Register renewable assets for I-RECs and LGCs Trade RECs & Carbon with us Trade Local & International Environmental Attribute Certificates moREnewable100 (RECs & Offsets) Reach Global Sustainability Goals with Certificates and Offsets Deemed Certificates (VEU & ESS) NSW & VIC Rebates Global Certificates Environmental Attribute Certificates Australian Programs Australian EAC Programs Case Studies Sectors Articles Team More Close More Open More Northmore Gordon Learn more about Northmore Gordon with the latest news and insights, were to find us, and the extensive terminology used in emissions reductions About Us Who we are & what we do in energy efficiency & decarbonization. Locations Find our offices near you. Contact Us Get in touch with our team. Careers Join our team making a sustainability difference Articles Learn about energy efficiency & carbon reduction. Latest News Stay informed on industry developments. Government Updates Track policy changes impacting your energy use. Accreditations See our certifications for trusted service. Glossary Define key terms in emissions reduction.

Hibernation of the aquatic centre during COVID-19 period Northmore Gordon April 20, 2020 News Share this article In these unprecedented times, our buildings and facilities need to adapt to a new way of working as we have done. In this article, we explore some ways aquatic centres can save energy and money during hibernation. Over the last few weeks, several social distancing measures have been implemented to limit the spread of COVID-19 in different states and cities. Among those measures are the closure of indoor sport facilities and entertainment venues. Aquatic Centres are concerns and several centres across the country are now close to the public. It is unknown how long those restrictions will be enforced for. However, it seems clear that it will last for more than 2 months (some predictions talking about 18 months). Aquatic Centres are typically the largest energy consumers of a Council's portfolio and hibernating them during the COVID19 period could save a significant amount of energy and money for Councils. Shutting down an aquatic centre is definitely possible, although some procedures must be clearly followed. Here we propose three stages to slow down or shut down the aquatic centre: Shutting down of the water heating, Reprogramming of the HVAC Heating, ventilation, and air conditioning is the technology of indoor and vehicular environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality. system to slow down the pool hall air heating, Shutting down water recirculation and drainage of the pool. Shutting down of the water heating This is the easiest and most immediate source of energy saving. All aquatic centres consume energy to maintain the pool water at a suitable temperature. The heat is supplied by one or several heating systems such as gas boilers, electric heat pumps, cogeneration system, solar thermal, or heat recovery systems. During this extended period of time where the pool will be unoccupied, maintaining the heating system active is not relevant. For every heating systems, especially for gas boilers, heat pumps, and cogeneration systems, there are procedures provided in the user's manual which explain how to hibernate such equipment. The purpose of a hibernation procedure (or extended shut down) is to ensure that the system remains inert and does not degrade during the shutdown period. If necessary, get your contractor to attend the site and perform the procedure. The BMCS should be maintained in operation during the whole period of COVID-19. If necessary, you can change the pool water setpoint to 0°C (in order to remove the need from the BMCS to activate heating and to avoid getting fault alarms). The consequences of stopping the heating are: Heating water loops are stopped, which leads to energy savings Electricity or gas savings or both. from the operation of the pumps. Pool water will naturally cool down. Note that it could take several hours (up to one or two days)

to heat up the pool water to its original set point when the centre will re-open. The timeframe requires to heat up the pool water depends on the water volume to heat and heating capacity available. Water heating systems in hibernation mode. No hazards related to the operations of the heating systems and savings on the maintenance costs. Note that, when available, pool covers should be used during the whole period in order to protect the water from dust and reduce evaporation. Reprogramming of the HVAC system (applies to indoor pools) The next step of the shutting down of the aquatic centre is related to the HVAC system. This applies to indoor pools only. While the pool is unattended, heating and cooling of the pool hall air are not necessary. However, to protect the building from condensation, you must keep the relative humidity within an acceptable range and the air temperature above dew point! Separately, you can slow down the fans used for the air circulation. It is important to keep the air flowing, but it should be limited to the strict minimum required. Reducing the air movement reduces evaporation from exposed pool water, which help to maintain the relative humidity within an acceptable range. Get the pool operators or BMCS contractor to adapt the set points and controls of the BMCS: Reduce the air flow, Disable the air temperature set point, Disable the heating and cooling systems, unless when they are used to maintain the air within the acceptable RH range and air temperature above the dew point. Shutting down water recirculation and drainage of the pool Finally, the recirculation pumps could be stopped. However, this can have a significant impact on other assets and must be carefully planned. For instance, when recirculation pumps are stopped, chlorine used for disinfection of pool water will naturally degrade until none is left. At that point, microorganisms can thrive especially with natural light. This can become a health hazard. If the circulation pumps are stopped, it would be recommended to drain the water out to reduce health hazards. As a minimum, any superfluous filters should be isolated and put into a hibernation mode. Especially with UFF (Ultra Fine Filters), make sure you follow the protocols described by the manufacturer. Note: if you slow down the pumps to save energy, make sure that you comply with the minimum flow rate required by the filtration system! Sand filters, particularly, do have a minimum flow rate. Below this value, water can create channels in which biofilm forms. These biofilms then accelerate the growth of micro-organisms. Shutting down all unnecessary equipment Finally, and this applies to any step above, shut down all non-essential items such as: Domestic hot water systems (for change rooms typically), Lighting, if on a timer, Any automatic features on a timer, Small A/C units for office rooms, Equipment from the gym. How much money could be saved for the above recommendations? Below is the typical energy breakdown of swimming pools Typical ratio Assets 60-80% Pool heating (and air heating for indoor pools) 10-15% Pumping system 5-15% Domestic hot water 5-10% AC, office, other Now, consider your annual energy expenditure. Let's assume \$300k. Note that, as a rule of thumb: for an indoor pool, the energy consumption is fairly stable throughout the year, while for an outdoor pool, 2/3 of the energy is consumed during 1/3 of the year (winter). With steps #1 and #2, the pool could save from \$15k/month to \$20k/month. With step #3, the pool could save from \$2.5k/month to \$3.8/month. All non-essential items could save from \$2.5k/month to \$6.3/month. Note that this shutdown can be the opportunity to move forward with the implementation of equipment upgrade and energy efficiency improvements. If you have any questions, the Northmore Gordon team will be happy to help. Stay safe. Boilers , COVID-19 , Equipment Upgrade , Heat Pumps , HVAC You may also like: \$1.6M win for sustainable community infrastructure. Swimming Towards Sustainability: How to Reduce Energy Costs in Large Pools and Aquatic Centres Feeling a bit gassy & bloated? Increase your energy efficiency, reduce costs and support the environment Latest Updates ASRS Group 3: are you in scope and don't know it? Correct as at 13 September 2026. If your company is a large proprietary company, you may be legally required to report under Australia's mandatory climate Read More » Welcome to our August & September 2026 Compliance Update. This edition confirms Northmore Gordon's accreditation for three new PDRS battery activities, tracks the VEUVictorian Energy Upgrades is a Victorian government energy efficiency program that Read More » Australian Certificate Markets – August 2026 Update Price Summary Certificate Open Close Range Effective cap Movement / Reason PRC \$2.70 \$3.35 \$2.70 – \$3.35 \$3.80 ▲ Rallied from 14 August on the Read More » Where's the value in renewable heat? Most renewable heat conversations start with a technology question: heat pump, biomass, biogas, or electrify the whole boiler? It's the wrong starting point. The full Read More » Beyond annual matching: The evolution of time-stamped RECs For more than a decade, Renewable Energy Certificates

(RECS)-RECs, GOs, TIGRs Tradeable Instrument for Global Renewables (TIGR) Registry is an online platform for tracking and transferring renewable energy certificates (RECS), enabling developers to generate, verify and sell RECs. The registry is run by APX, a US company that provides infrastructure for environmental markets around the world. , LGCs, ZNECs, J-Credits) have underpinned global renewable electricity procurement. By purchasing RECs equivalent to Read More » Solar irrigation upgrades: Don't let certificate funding go unclaimed Irrigation pumps are one of the biggest hidden costs on an Australian farm. In particular, if they run on diesel, they're exposed to fuel price swings, need constant Read More » Get in touch Australia 1300 854 561 (Advisory) 1300 878 500 (Certificates) Melbourne Suite 1, Level 4 607 Bourke Street Melbourne VIC 3000 Singapore +65 6690 2480 Singapore 1 Keong Saik Road, Singapore 089109 Stay up to date Alternatively, complete the form and we will be in touch with you. First Name Last Name Email Phone Number Country Australia Singapore Subject Message Send Services Energy Audit Services M&V; Services EEO Assessments Corporate Energy and Carbon Management Grants and Program Strategic Energy Sourcing Virtual Energy Manager Climate Active Certification Sectors Animal Processing Chemical Processing Commercial Buildings Food & Beverage Manufacturing Mining Oil & Gas Pharmaceutical & Health Products Public Sector Waste & Wastewater Wood, Paper & Cardboard Processing Upgrades Boiler Upgrades Commercial Lighting Hot Water Systems Mid Scale Solar NABERS Public Lighting Refrigerated Display Cabinets Solar PV Small Scale UPS Certificates Live Certificate Prices International Renewable Energy Certificates Tradable Instrument for Global Renewables Australian Carbon Credit Units Energy Savings Certificates Large-scale Generation Certificates Small-scale Technology Certificates Victorian Energy Efficiency Certificates Government Schemes Emissions Reduction Fund Energy Savings Scheme Renewable Energy Target Victorian Energy Upgrades Helpful Links About us Meet the Team Careers Contact us Articles News Glossary Privacy Policy Complaints