



## Sustainable Water Systems

Society's view of water has a significant impact on the sustainability of our businesses and communities. A longstanding linear and siloed approach to water, wastewater and stormwater has had a significant impact on our environment, our health and our pocket books. Add to this our declining infrastructure, the uncertain impacts resulting from climate change and the rapid adaptation that may be required and it is evident that the status quo in water management is no longer adequate.

### A Systems Approach to Water Management Can Save Money and Improve Sustainability

Novus has the knowledge that clients are looking for to develop a new relationship with water. We can help anticipate future water availability and develop a demand management plan that reduces water vulnerability no matter where you are in the world. Our systems approach integrates water and wastewater, reducing waste and saving costs. We help clients dramatically reduce water demand, reducing environmental impact, protecting biodiversity and extending our valuable water supplies.



#### SERVICES:

- Water and Wastewater Quality
- Integrated Water Management
- Industrial Water Systems
- Climate Change Adaptation

#### CLIENT SECTORS:

- Federal, Provincial, State
- Municipal, Local
- Land Use Planning
- Building Design
- Industrial
- Energy, Oil and Gas



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## Regulatory Permitting and Environmental Effects

Novus works with clients at any point in the life of a project, from early stage planning and design to maintenance of existing facilities. We help clients manage the environmental and social aspects of any project.

## Climate Change, Demand Forecasting and Vulnerability

Novus brings together advanced climate change modeling and water availability forecasting and in concert with analysis of current and future water demand, identifies vulnerabilities in future planning. This approach supports management strategies that reduce risk, improve sustainability and assist in determining future location and design of facilities.

## Integrated Water, Energy and Food

Current approaches to water management have proven to be unsustainable for both the private and public sectors. Rising costs, deteriorating infrastructure and financial uncertainty are factors which force communities to rethink the way they manage water. Matching the quality of supply more closely with that required reduces waste, lowering costs and bringing industrial clients into regulatory compliance. Our integrated water and energy approach maximizes efficiency by developing alternative resources, recycling and fully exploiting



the value in wastewater including extraction of heat, nutrients and energy. To close the loop even further, Novus is also able to bring to bear experts in urban agriculture and food systems.

## Systems Analysis and Pollution Prevention

Novus uses an interdisciplinary systems approach to complete full life cycle analysis for our industrial clients. Considering water, wastewater and energy costs throughout the supply chain can reduce waste and improve sustainability. Pollution prevention approaches reduce the cost of treating and disposing of contaminants in wastewater by identifying the source of the pollutants and either modifying processes or replacing products upstream.

## Novus Applies Full Life Cycle Sustainability to Reduce Risk and Save Money for our Clients



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*Harmonizing the built and natural environments*