



# Cook Legacy July eNews

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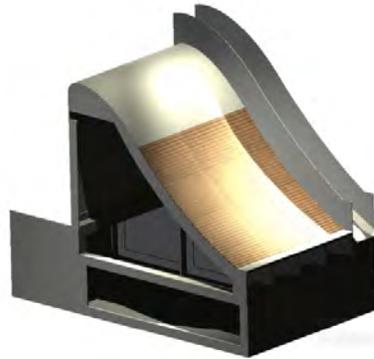
Cook Legacy eNews is an email newsletter intended to provide our clients and friends with news and insight. Our focus is to provide helpful tips and useful guides on the issues we encounter most frequently. Please [let us know](#) if you would like to see a specific topic covered.

Featured In This Issue:

## Where Are We Going? — Coanda Power Systems

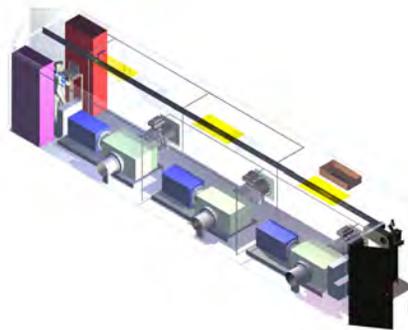
We're taking a few issues of the Cook Legacy eNews to examine where some of the markets we work in are headed. Cook Legacy is excited about Coanda Power Systems. The idea behind Coanda Power Systems was born out of a global need for electricity. Especially in rural areas in the developing world, power is scarce, as is the civil infrastructure to generate it. What does exist in abundance in many of those same areas are mountains, water, and a willingness to embrace green energy — the key factors in generating electricity via Coanda Power Systems.

Cook Legacy is investigating projects on six continents with current efforts focused on British Columbia, Latin America, Africa, and Eastern Europe. Within that context, we've developed a solution that is adaptable to small hydro sites around the world — Coanda Power Systems — a simple, modular, low-maintenance small hydro solution. The major technical components of Coanda Power Systems are the Coanda Power Box and the Coanda Powerhouse.



The Coanda Power Box is the key to the Coanda Power System concept. Because of the unique design, the screens are low maintenance and have no moving parts, limited civil structure, and no power supply. The Coanda Power Box features a complete intake structure including a Coanda Effect Screen, accelerator, adjustable spillway, and catch basin. The modular design allows for fast and economical site development and is suitable for sites with flows smaller than 2.0 CMS.

The second element of the Coanda Power System is the Coanda Powerhouse. The Coanda Powerhouse transforms the hydroelectric potential of the site into power for the grid. Consisting of a turbine generator, controls system, transfer switch, and back-up generator, each Powerhouse can be sized for a total power capacity of 0.5 MW.



The world needs power, and Coanda Power Systems are a green, robust, and proven energy solution. The challenges of powering the world are not only about solving technical problems, but also about imagining these solutions and how they apply around the world. Cook Legacy is eager to innovate in these areas.

Visit [coandapower.com](http://coandapower.com) to learn more about Coanda Power Systems.

Thank you,  
[Randy Surface](#), Communications Director

Case Study:  
[Jacquelyn™ Coating for Vertical Traveling Screens](#)

Zebra and quagga mussels are a pressing and difficult operational problem for water managers. Cook Legacy offered a solution for this problem at a water treatment plant in Minnesota. Cook Legacy's Jacquelyn™ coating is providing mussel protection for the plant's vertical traveling screens.



Cook Legacy applied Jacquelyn™ Coating to vertical traveling screens constructed by Banker Wire. The screens, now biofouling-resistant, are strong and environmentally sound. The use of Jacquelyn™ allowed for the durability of stainless steel with protection similar to that of 90-10 CuNi.

Jacquelyn™ Coating is a patented material with antifouling properties similar to those of copper-nickel but with very low copper leaching, leading to improved longevity and environmental performance. The coating's thin profile, permanence, and lack of reliance on copper-leach means that the screens are strong and safe for the environment. An object coated with Jacquelyn™ will remain free of zebra mussel attachment as the surrounding water remains safe.

Jacquelyn™ Coating is a non-ablative, permanent, corrosion and biofouling-resistant coating that protects fresh water, seawater, and estuarine sites. In addition to wastewater treatment, Jacquelyn™ Coating has been used for desalination intakes, cooling water intakes, piping, and biofouling prevention for docks and piers.

If you have a problem that Cook Legacy can help with, please [contact us](#).

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Upcoming Events:

## HydroVision International

Stop by and visit Cook Legacy and Norris Screen at the HydroVision International Conference in Sacramento, July 19-22. We'll be in booth 517 talking about Coanda Power Systems, fish screens, and other water solutions.

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