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THE MAGAZINE OF TECHNOLOGY INSIDERS

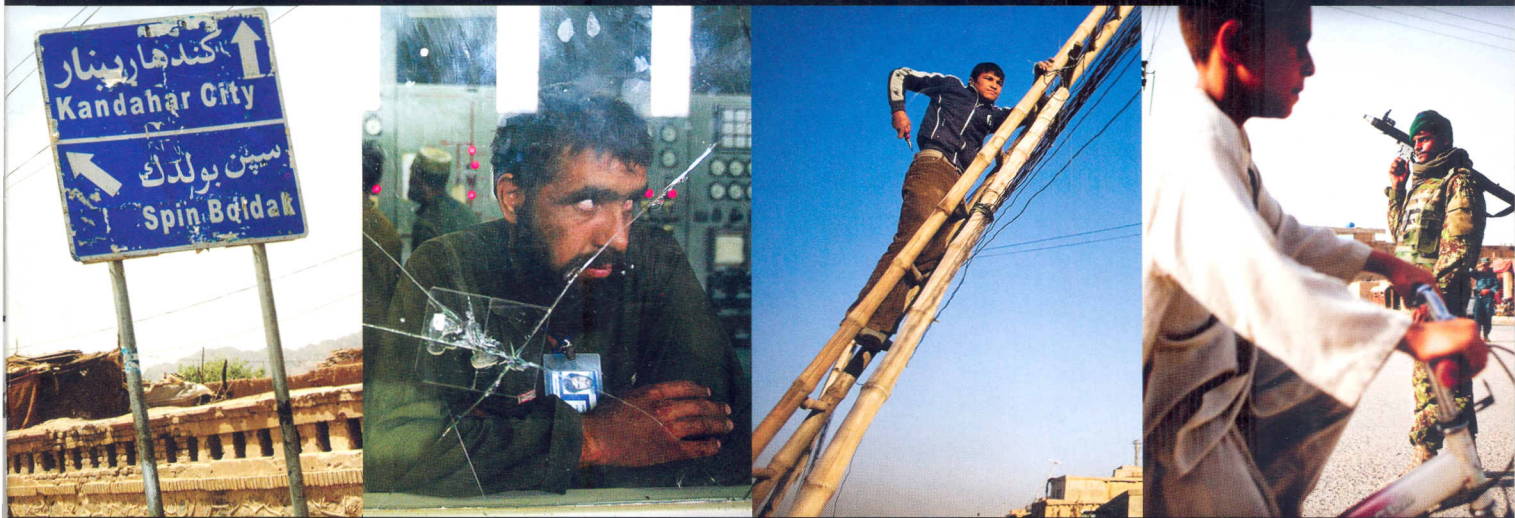
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RE-ENGINEERING AFGHANISTAN

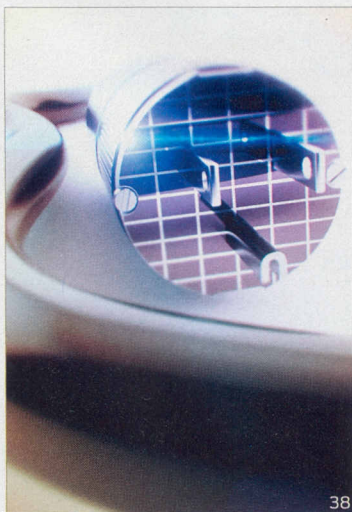
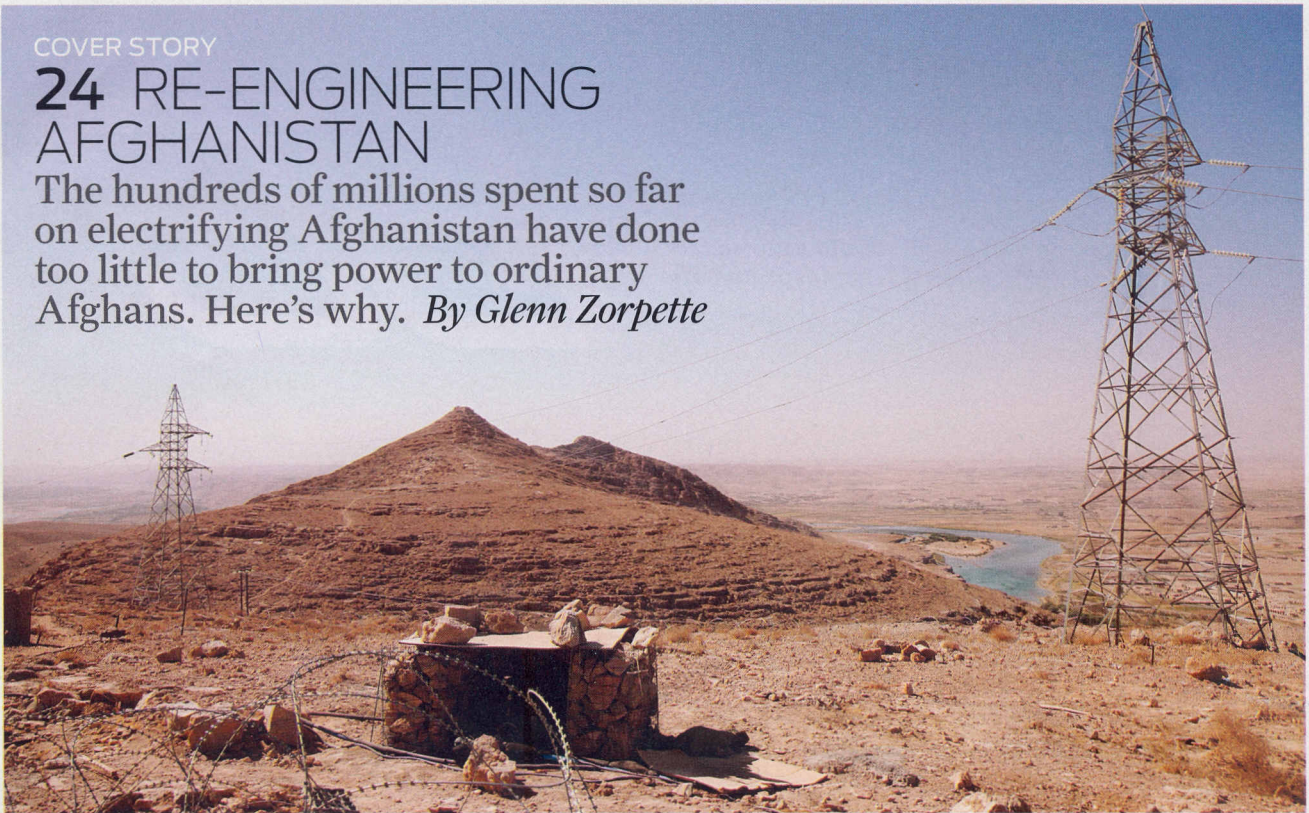
The coalition has spent hundreds of millions trying to give Afghanistan electricity. Unfortunately, it made many of the same mistakes it made in Iraq



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The hundreds of millions spent so far on electrifying Afghanistan have done too little to bring power to ordinary Afghans. Here's why. *By Glenn Zorpette*



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COVER, CLOCKWISE FROM TOP LEFT: GLENN ZORPETTE; DAVID GOLDMAN/AP PHOTO; EMILIO MORENATTI/AP PHOTO; PAULA BRONSTEIN/GETTY IMAGES; EROS HOAGLAND/REDUX; JEROEN OERLEMANS/PANOS PICTURES; MARKO DJURICA/REUTERS; JOAO SILVA/THE NEW YORK TIMES/REDUX

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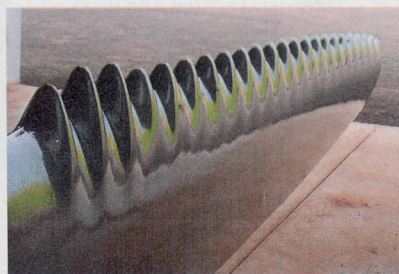
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Of Whales and Wind Turbines

When you think wind turbines, you probably don't think whales. But by incorporating some structures inspired by humpback whale fins, one firm has built much more efficient turbines. And by copying the way fish swim in schools, a separate research team has figured out how to pack more turbines into wind farms. Such biomimicry could contribute to more affordable renewable energy.



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CUTTING DOWN ON SPAM Despite e-mail filters, spam has become an annoying part of our daily lives. But a group of researchers has found a way to help cut down on e-mail junk—by hitting spammers where it hurts most: their wallets.

THE IEEE JOB SITE CELEBRATES 10 YEARS

It's been a decade since IEEE launched its job site for members, and the service has never been so needed. There are all sorts of features to help members find a job. And more than 5000 employers use the site to post open positions—about 1300 every month.

WEBINARS EXPLORE RISK MANAGEMENT

The demand for engineers familiar with risk management is high, yet few have the training. To beef up IEEE members' knowledge of the field and boost their career opportunities, IEEE-USA has rolled out a six-part webinar on the topic.

ONLINE WEBINARS & RESOURCES

AVAILABLE AT <http://spectrum.ieee.org/webinar>

4 October in California: The IEEE Emerging Technology Forum Series: Silicon Valley's Impact on the Automotive Industry

20 October: Plasma Modeling With COMSOL Multiphysics

24 October in California: The Emerging Technology Forum Series: Reinventing Infrastructure for High Speed Rail

27 October: Simulation of Vacuum Electronics Devices Using VORPAL

Requirements Management's Key Role in the Nuclear Industry

Modeling and Simulation of HEV and EV Power Electronics

Teaching Control Systems to Future Engineers

Systems Engineering: Two Perspectives on a Domain That Is No Longer Optional

PMU Technology for Dynamic Conditions in Distribution

Simulation of Electrodeposition Processes Using COMSOL

Smart-Grid Control Systems: Moving Towards a Self-Healing Grid

The Insight You Want, the Data You Need: Transforming Insights Into Action

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