

AMORY B. LOVINS is cofounder (1982), Chairman, and Chief Scientist of Rocky Mountain Institute ([www.rmi.org](http://www.rmi.org))—an independent, entrepreneurial, nonprofit think-and-do tank that fosters the efficient and restorative use of resources to make the world secure, just, prosperous, and life-sustaining. A consultant experimental physicist, he has advised the energy and other industries for 34 years as well as DOE and DoD. Published in 29 books and hundreds of papers, his work in ~50 countries has been recognized by the “Alternative Nobel,” Onassis, Nissan, Shingo, and Mitchell Prizes, a MacArthur Fellowship, the Benjamin Franklin and Hapgood Medals, nine honorary doctorates, an Hon. AIA, and the Heinz, Lindbergh, *Time* Hero for the Planet, Jean Meyer, and World Technology Awards. He advises industries and governments worldwide, chiefly on advanced energy and resource efficiency, has led the superefficient redesign of \$30 billion worth of facilities in 29 sectors, and has briefed 19 heads of state. For the past dozen years, he has also led the development of quintupled-efficiency, uncompromised, cost-effective automobiles ([www.hypercar.com](http://www.hypercar.com))<sup>1</sup>, low-cost advanced-composite manufacturing technology to make them ([www.fiberforge.com](http://www.fiberforge.com)), and a profitable hydrogen transition strategy to fuel them.<sup>2</sup> Much of his wider work is synthesized in *Natural Capitalism* ([www.natcap.org](http://www.natcap.org)). His *Small Is Profitable* ([www.smallisprofitable.org](http://www.smallisprofitable.org)) was an *Economist* 02 book of the year. In Sep 04, he and four colleagues published the OSD- and ONR-cosponsored independent synthesis *Winning the Oil Endgame*<sup>3</sup>, showing how to eliminate U.S. oil dependence and revitalize the economy, led by business for profit and catalyzed by military advanced-materials S&T.

Dr. Lovins’s security background includes devising the first logically consistent approach to nuclear nonproliferation (technical papers<sup>4</sup> and two books, 1979–1983); performing for DoD the definitive unclassified study of domestic energy vulnerability and resilience<sup>5</sup>; co-developing a “new security triad” of conflict prevention, conflict resolution, and nonprovocative defense<sup>6</sup>; lecturing at NDU, NWC, NPS, USMA, STRATCOM, etc. on least-cost security and on how new technologies will transform missions and force structures; leading for VADM Lopez the 1995–98 overhaul of NAVFAC’s design process; leading a 2000–01 analysis for SECNAV of how to save ~\$1 million/y of hotel-load electricity aboard *USS Princeton CG-59*<sup>7</sup>; keynoting CNO’s Naval-Industry R&D Partnership Conference 5 Aug 03; and serving on a 99–01 Defense Science Board panel, chaired by VADM (Ret.) Richard Truly, on *Enhanced Warfighting Capability Through Reduced Fuel Burden*, which identified cost-effective DoD fuel-saving potential<sup>8</sup> later estimated by RMI’s platform-by-platform analysis to total about 66%, excluding consequent lift savings. He is currently engaged with DoD leadership on implementing *Winning the Oil Endgame* and its platform-efficiency recommendations<sup>9</sup>, serving on a new DSB task force cochaired by ex-SECDEF Schlesinger and GEN Carns (USAF Ret) (outbriefed to DSB Feb 07), and exploring with COMNAVSEA how to transform Naval design process.

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<sup>1</sup> A.B. Lovins & D.R. Cramer, “Hypercars<sup>®</sup>, Hydrogen, and the Automotive Transition,” *Intl. J. Veh. Design* **35**(1/2):50–85 (2004), [www.rmi.org/sitepages/pidi175.php#T0401](http://www.rmi.org/sitepages/pidi175.php#T0401).

<sup>2</sup> Summarized in “Twenty Hydrogen Myths,” [www.rmi.org/images/other/Energy/E03-05\\_20HydrogenMyths.pdf](http://www.rmi.org/images/other/Energy/E03-05_20HydrogenMyths.pdf).

<sup>3</sup> Downloadable free from [www.oilendgame.com](http://www.oilendgame.com), where technical backup and reviews are also posted. The study was reviewed for OFT in D. Berkey *et al.*, “Energy Independence Assessment: Draft Final Briefing for Office of Force Transformation,” Logistics Management Institute, 12 Jan 05, which strongly recommended DoD implementation of major gains in platform fuel efficiency as essential to transformational goals.

<sup>4</sup> Summary in *Foreign Affairs* **58**:1137–1177 (1980); typical unclassified support in *Nature* **283**:817–823 (1980).

<sup>5</sup> A.B. & L.H. Lovins, *Brittle Power: Energy Strategy for National Security*, 1981 report to DoD, 436 pp., 1,200 refs., Brick House (Andover MA), 1982, out of print but reposted in 2002 at [www.rmi.org/sitepages/pid533.php](http://www.rmi.org/sitepages/pid533.php). Foreword by ex-JCS Chair ADM (Ret.) Tom Moorer and ex-USECNAV, later DCI, Jim Woolsey.

<sup>6</sup> H. Harvey & M. Shuman, *Security Without War*, 1990–93, Westview, [www.rmi.org/sitepages/pid618.php](http://www.rmi.org/sitepages/pid618.php).

<sup>7</sup> RMI report under ONR Grant #N00014-01-1-0252, 2001, summarized at [www.rmi.org/sitepages/art7057.php](http://www.rmi.org/sitepages/art7057.php).

<sup>8</sup> At [www.acq.osd.mil/dsb/fuel.pdf](http://www.acq.osd.mil/dsb/fuel.pdf), summarized for lay readers at [www.rmi.org/sitepages/art7049.php](http://www.rmi.org/sitepages/art7049.php).

<sup>9</sup> *Winning the Oil Endgame* and its technical backup are all free downloads from [www.oilendgame.com](http://www.oilendgame.com).