

BTH Karlskrona, 20–26 Aug 2026:
**International Train-the-Trainers Masterclass on
Integrative Design for Extreme Energy Efficiency,
and BTH Campus Integrative Design Charrette.**

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BTH Masterclass Schedule, 20–25 August 2026

- Thu 20. 0900–0940: introductions, purpose/hopes, mutual learning journey, ground rules
0940–1045 + 15m discussion: Lecture 1 (Introduction)
1100–1115: break
1115–1215 + 15m discussion: Lecture 2a (Buildings)
1230–1400: lunch break
1400–1500 + 15m discussion: Lecture 2b (Buildings movie)
1515–1730: Puzzler
- Fri 21. 0900–0915: discn / shower epiphanies
0915–1030 + 15m discussion: Lecture 2c (Buildings)
1050–1100: break
1100–1220 + 10m discussion: Lecture 3a (Mobility)
1230–1400: lunch break
1400–1600 + 10m discussion: Lecture 3b (Mobility)
1600–1800: Puzzler
- Sat 22. 0900–1015 + 10m discussion: Lecture 4 (Industry context)
1025–1145 + 15m discussion: Lecture 5 (Industry equipment)
1200–1330: Puzzler
- Sun 23. 1300–1420 + 10m discussion: Lecture 6 (Industry processes)
1430–1440: break
1440–1605 + 10m discussion: Lecture 7a (Electricity)
1615–1730: Puzzler
- Mon 24. 0900–1050 + 10m discussion: Lecture 7b (Electricity)
1100–1110: break
1110–1230 + 10m discussion: Lecture 8a (Implications)
1240–1400: lunch break
1400–1620 + 10m discussion: Lecture 8b (Implications)
1630–1730: Puzzler
- Tue 25. 0900–1100 + 10m discussion: Lecture 9 (Implementation)
1110–1300: Puzzler
1300–1420: lunch break
1420–1530: Puzzler
1530–1540: break
1540–1655: Lecture 10 (Closing)
1655–1730: pedagogical ideas and final discussion

BTH Charrette Schedule, 26 August 2026

09.00–21.00

Including evening lecture by Amory Lovins
(other details to be determined)

Recommended Video for the Masterclass

Amory Lovins ATT conference SF Climate week April 18, 2026:
<https://youtu.be/0THHsmnpbK4?si=njy1eaVxihnwTBO3>

Recommended Reading for the Masterclass

We strongly recommend you to get a hard copy or online version of Amory's book ***Reinventing Fire***, Amory Lovins and RMI, 2011 and familiarize yourself with it before the Masterclass.

We also recommend the following article: ***How Big is the Energy Efficiency Resource?***
<https://iopscience.iop.org/article/10.1088/1748-9326/aad965>

Reading list from the related Amory Lovins Stanford University Graduate course

Below is a selected list of publications by Amory Lovins and others that are the most appropriate background readings for his Stanford University graduate course. These readings can be helpful in completing the Puzzlers and other assignments.

Textbook: *Reinventing Fire*, Amory Lovins and RMI, 2011. Published by Chelsea Green (White River Jct, VT), ISBN 978-1-60358-538-5 paperback, 978-1-60358-372-5 ebook. Specific sections are assigned below. Summary chapters and details are included at <https://www.rmi.org/insights/reinventing-fire/>, but only the actual book contains the extensive references. The entire book will be helpful, in hard copy or on Google Books (better than Kindle version).

Week 1:

Required: Lovins, A.B., 1976. "Energy Strategy: The Road Not Taken?" Foreign Affairs 55(1), <https://rmi.org/resources/energy-strategy-the-road-not-taken/> (start on p 6)

Required: Lovins, A.B., 2018. "How big is the energy efficiency resource?" Env'tl Res Ltrs 13(9):1–17, <https://doi.org/10.1088/1748-9326/aad965>

Required: Lovins, A.B., 2021. "Creating The Next Energy Revolution: Integrative Design for Radical Energy Efficiency"

Week 2:

Required: Reinventing Fire, chapter 3, pages 76–98

Required: Meadows, D. H., 1999. "Leverage Points: Places to intervene in a system," <https://donellameadows.org/archives/leverage-points-places-to-intervene-in-a-system/>

Recommended: Randolph, J., and G. Masters, Energy for Sustainability, 2nd edition, chapters 6 and 7

Week 3:

Required: Reinventing Fire, chapter 2, pages 14–35 and 49–62.

Required: Lovins, A.B., 2020. “Reframing Automotive Fuel Efficiency,” Soc. Autom. Engineers, <https://doi.org/10.4271/13-01-01-0004>

Recommended: Lovins, A.B., 2010. “DOD’s Energy Challenge as Strategic Opportunity,” Joint Force Quarterly, 57:33–42, ndupress.ndu.edu/portals/68/Documents/jfq/jfq-57.pdf

Recommended: Ross, M., 1997. “Fuel Efficiency and the Physics of Automobiles,” Contemp. Physics, 38(6), 381–394. <https://doi.org/10.1080/001075197182199>

Week 4:

Required: Lovins, A. B., Lovins, L. H., & Hawken, P., 1999. “A road map for natural capitalism,” Harv. Bus. Rev., <https://rmi.org/insight/roadmap-for-natural-capitalism/>

Required: Lovins, A.B., “Decarbonizing Our Toughest Sectors—Profitably,” MIT Sloan Mgt Rev, 4 Aug 2021, <https://sloanreview.mit.edu/offers-free-download-sustainable-business/>

Recommended: Lovins, A.B. “Profitably Decarbonizing Heavy Transport and Industrial Heat,” RMI, 14 July 2021, <https://www.rmi.org/profitable-decarb/>

Week 5:

Required: Reinventing Fire, chapter 4, pages 122–144

Required: Natural Capitalism: Creating the Next Industrial Revolution, P. Hawken, A.B. and L.H. Lovins, Little Brown (NY) and Earthscan (London), 1999, 415 pp., posted free as tediously downloadable-chapter-by-chapter PDFs at www.natcap.org . Read chapter 4.

Recommended: Senge and Carstedt, “Innovating Our Way to the Next Industrial Revolution,” MIT Sloan Management Review, 42(2), 2001.

Week 6:

Required: Natural Capitalism, chapters 6 and 7

Required Video: Autodesk Sustainability Workshop. “Whole Systems Design: Introduction to Life Cycle Thinking,” <https://www.youtube.com/watch?v=7mC9xaJC2dQ>

Recommended: Lovins, A.B., 2005. “End-Use Energy Efficiency,” commissioned for Transitions to Sustainable Energy Use, InterAcademy Council, <https://rmi.org/resources/energy-end-use-efficiency/>

Recommended: Harvey, C. and K. House, 2022. “Every Dollar Spent on This Climate Technology Is a Waste,” New York Times, 22 August, <https://www.nytimes.com/2022/08/16/opinion/climate-inflation-reduction-act.html>

Week 7:

Required: Reinventing Fire, chapter 5, pages 164–202

Required: Lovins, A.B., & A. Faruqi, 2020. “The coming transformation of the electricity sector: A conversation with Amory Lovins,” The Electricity Journal 33(7), <https://doi.org/10.1016/j.tej.2020.106827>

Recommended: Lovins A., L.H. Lovins. 1983. “The fragility of domestic energy,” Atlantic, https://rmi.org/wp-content/uploads/2017/05/RMI_Document_Repository_Public-Reprts_S83-08_FragilityDomesticEnergy.pdf

Recommended: Lovins A.B. and M.V. Ramana, 2021. "Three Myths About Renewable Energy and the Grid, Debunked," Yale E360, <https://e360.yale.edu/features/three-myths-about-renewable-energy-and-the-grid-debunked>

Recommended: Victoria, M. et al., 2021. "Solar photovoltaics is ready to power a sustainable future," Joule 5:1041-1056, [https://www.cell.com/joule/pdfExtended/S2542-4351\(21\)00100-8](https://www.cell.com/joule/pdfExtended/S2542-4351(21)00100-8)

Recommended: Lazar, J., 2016. Electricity Regulation in the US: A Guide, Second Edition, Regulatory Assistance Project, <https://www.raponline.org/wp-content/uploads/2023/09/rap-lazar-electricity-regulation-US-june-2016.pdf>. Chapters 1, 15 and 17.

Recommended: Swisher, J., G. Jannuzzi and R. Redlinger, 1997. Tools and Methods for Integrated Resource Planning, UN Environment Programme, <https://www.unep.org/resources/report/tools-and-methods-integrated-resource-planning>, sections, 1C, 1D, 2C, 2E.

Week 8:

Required: Lovins, A.B., 2019. "Recalibrating climate prospects," Environ. Res. Ltrs. 14(12), <https://doi.org/10.1088/1748-9326/ab55ab>

Required: Lovins A.B., 2019, "Does Nuclear Power Slow Or Speed Climate Change?" Forbes, <https://www.forbes.com/sites/amorylovins/2019/11/18/does-nuclear-power-slow-or-speed-climate-change/>

Required: Gold, R., 2022. "The Texas Electric Grid Failure Was a Warm-up," Texas Monthly, <https://www.texasmonthly.com/news-politics/texas-electric-grid-failure-warm-up/>.

Recommended: Lovins, A.B., 2012. "A farewell to fossil fuels: Answering the energy challenge." Foreign Affairs. http://www.rmi.org/Knowledge-Center/Library/2012-01_FarewellToFossilFuels

Recommended: R. Way et al., "Empirically grounded technology forecasts and the energy transition," [https://www.cell.com/joule/pdf/S2542-4351\(22\)00410-X.pdf](https://www.cell.com/joule/pdf/S2542-4351(22)00410-X.pdf)

Recommended: Oreskes, N. and E. Conway, 2010. Merchants of Doubt, Bloomsbury Press, Chapter 6: The Denial of Global Warming

Week 9:

Required: Lovins, A. B., 1993. "Energy-Efficient Buildings: Institutional Barriers and Opportunities," E source, <https://rmi.org/insight/energy-efficient-buildings-institutional-barriers-and-opportunities/>

Required: Cavanagh, R., 2021. "A Tale of Two Grids: Texas and California, NRDC Blog, <https://www.nrdc.org/experts/ralph-cavanagh/tale-two-grids-texas-and-california>

Recommended: Reed, S, and M. Eddy, 2023. "Europe Has Weathered an Energy Crisis, for Now," New York Times, 24 February 2023, <https://www.nytimes.com/2023/02/24/business/europe-energy-crisis.html>

Recommended: International Energy Agency (IEA), 2023. "Energy Efficiency Policy Toolkit 2023: From Sønderborg to Versailles," <https://www.iea.org/reports/energy-efficiency-the-decade-for-action/energy-efficiency-policy-toolkit-2023-from-sonderborg-to-versailles>

Week 10:

Required: Klotz, L., 2022. "From Designing a House to Editing Text, Sometimes Less Is More," Scientific American, 12 May, <https://www.scientificamerican.com/article/from-designing-a-house-to-editing-text-sometimes-less-is-more/>

Recommended: Eisenson, M., et al, 2024, "Rebutting 33 False Claims About Solar, Wind, and Electric Vehicles," Columbia Law School, <https://climate.law.columbia.edu/content/rebutting-33-false-claims-about-solar-wind-and-electric-vehicles>

Links to potential Accommodation

Even though the course is free, accommodation is not. Here are some links to potential accommodations that you can book for the days of the course:

- A list of hotels at [www.Booking.com](https://www.booking.com) (from the cheapest to the most expensive):
https://www.booking.com/searchresults.en-gb.html?ss=Karlskrona&ssne=Karlskrona&ssne_untouched=Karlskrona&label=slgp_-saQGXLv8b_QnVh6jNoULXAS502736705251%3Apl%3Aata%3Ap1%3Ap2%3Aac%3Aap%3Aneg%3Afi%3Atikwd-1773883496%3Alp1012397%3Ali%3Adec%3Adm%3Appccp%3DUMFuZG9tSVYkc2Rllyh9Ydj4ck6nlj5Y68A--pcUDGw&sid=c7e1f335f884bbc581ee36d4e3b223e4&aid=375026&lang=en-gb&sb=1&src_elem=sb&src=searchresults&dest_id=-2493601&dest_type=city&checkin=2026-08-19&checkout=2026-08-26&group_adults=1&no_rooms=1&group_children=0&soz=1&lang_changed=1
- Scandic Karlskrona (a higher end alternative):
https://www.scandichotels.com/en/hotels/scandic-karlskrona?utm_source=google&utm_medium=organic&utm_campaign=gmb&utm_term=karlskrona