



## NWU\_D8\_Audiovisual Transcript\_2017-08-10

### DESCRIPTION:

Enable by House by Northwestern is Northwestern University's first entry to the Department of Energy Solar Decathlon. Designed for active Baby Boomers living in Chicago's North Shore who are looking to downsize and buy their home for life, Enable delivers an **energized** (energy-efficient and active lifestyle) and **adaptable** (the house meets residents' changing needs) experience for its target users. Enable is more than a house. It's a home for today, and tomorrow.

### TEXT VERSION

Below is the text version for the audiovisual presentation of Northwestern University's U.S. Solar Decathlon 2017 team.

*The video opens with an external rendering of the solar house built by the House by Northwestern team. Upbeat music plays in the background, and a narrator begins speaking as the rendering zooms.*

*Narration: Welcome to Enable, by House by Northwestern. Your home for today, and tomorrow.*

*Video changes to animation of words "Energized & Adaptable." As narrator speaks and introduces name of the house, En- and -able move together to spell "Enable."*

*Narration: Our home is both energized, meaning energy-efficient, and adaptable, meaning this house adapts to the changing needs of our residents. These come together to form "Enable."*

*Video footage changes to a shot of the student project manager being interviewed inside the under-construction house.*

*Caption: Bill Bach, Student Project Manager*

*Bill Bach: From the beginning, we envisioned an energy-efficient, solar-powered home for Baby Boomers in their late-50s and early-60s looking to downsize.*

*Video cuts to a series of photographs of members of Enable's target demographic who worked on the House by Northwestern project, going on shopping trips and visiting the construction site.*

*Bill Bach: We've worked closely with our target demographic through interviews, classes, home visits, and focus groups to determine what they want in a home.*

*Video footage shows a member of the target demographic sitting during an interview.*

*Caption: Carol Vander Wilt, Evanston, IL Resident*

*Carol Vander Wilt: I want to walk into a home and feel happy that I live here.*

*Video cuts to an overhead shot of the house. Shot pans to show roof and solar panels.*

*Bill Bach: Our 6.5-kilowatt solar array provides slightly more power than our efficient home uses, enabling us to live entirely off of solar energy.*

*Video changes to interview shot of Bill Bach.*

*Bill Bach: The battery system allows us to consume solar energy at night and also acts as a backup power source for the home.*

*Video cuts to a photograph of the target demographic in the house and then a photo of Enable's installed solar panels as Bruce Marx begins to speak.*

*Bruce Marx: We were very involved in the type of panels that ultimately ended up in the house.*

*Photos change to video footage of target demographic interview.*

*Caption: Bruce Marx, Evanston, IL Resident*

*Bruce Marx: They're a type of solar panel, but they're in lieu of the large panels, and look a lot more like a conventional roof.*

*Video changes to rendering of interior of Enable. Narrator speaks as rendering zooms to showcase the living room.*

*Narration: Our carefully chosen, environmentally friendly features make the house a healthy place to live in and give our potential homebuyers the aesthetic they desire.*

*Living room rendering zooms toward "living walls," plants that grow from walls on either side of the television in the living room, as Bill Bach speaks.*

*Bill Bach:* Our living walls improve the indoor air quality in the home by filtering the air continuously. Our drywall also improves the indoor air quality by actively removing toxins from the air.

*Video changes to a flow-chart diagram explaining the HVAC system. Small complementary icons accompany the following words: "Air enters from outside → Electricity warms air by compression → Heat used to warm air inside house or stored in the buffer tank → Hot water used for showers & taps". Bill Bach explains the HVAC system as the diagram shows.*

*Bill Bach:* Our HVAC system uses heat pump technology to efficiently heat and cool our home. This same system also provides the heat for our domestic hot water.

*Diagram changes to a moving graphic explaining the Energy Recovery Ventilation system. The diagram shows the Enable house logo with three arrows rotating around the text "air filtered." On the left side of the logo roof is the text "Stale air from inside moves outside" and on the right side of the roof, "Fresh air from outside moves inside." Bill Bach continues to talk as the graphic shows.*

*Bill Bach:* This, coupled with our ERV, or Energy Recovery Ventilation system, ensures a comfortable and healthy indoor environment year-round.

*Video switches to a rendering of the convertible room, which features a built-in desk and a view of the dining room and kitchen. Narration occurs as rendering zooms.*

*Narration:* Attached to the living room is the convertible room, designed to be a home office space that can serve as an extra bedroom for a grandchild or in-home caretaker.

*The rendering footage returns to shot of living room, this time zooming to feature the kitchen. Narration continues.*

*Narration:* For our demographic, the kitchen is the most important space in the house. So we made sure to make it environmentally friendly, and as beautiful as possible.

*Footage becomes rendering of the master bedroom, with artwork, bedside tables, and a large bed. Narration continues and rendering zooms.*

*Narration:* Our home meets accessibility requirements of the Americans with Disabilities Act.

*Rendering footage switches to rendering of master bathroom, including sink, shower, grab bars, toilet, towels, and artwork. Narration continues and rendering zooms.*

*Narration:* The bathroom, for example, is equipped with grab bars to prevent a fall, and all our doors are easy-to-turn levers.

*Video changes to a flow-chart diagram explaining photocatalysis, the process Enable's windows and surfaces use to clean themselves. Small complementary icons accompany the following words: "Sunlight activates surface coating → Water vapors become oxidizers → Oxidizers destroy VOCs & pollutants". Bill Bach explains the treatment as the diagram shows.*

*Bill Bach:* Our windows and exterior surfaces are treated with a spray which transforms them into light-activated, self-cleaning air purifiers.

*Diagram changes and becomes video footage showing Bruce Marx sitting during an interview.*

*Bruce Marx:* Hopefully we were able to transmit to the students what the seniors really would like to see, what their retirement goals and thoughts were, what would make them happy in retirement.

*Video footage of Bruce Marx changes to footage of Bill Bach in an interview inside Enable.*

*Bill Bach:* The crux of HBN's design efforts was to create a home that balances the needs of the market with our team's desire to create a sustainable, environmentally friendly home. By packaging energy-efficient and sustainable features in a comfortable, beautiful, accessible, and easy-to-maintain home, *Enable* offers sustainability without compromise.

*Video closes with white screen that includes large, full-sized Enable logo; Solar Decathlon logo in bottom left; and Creative Commons Music icon next to words "Music Courtesy of Pond5." Music builds and then ends.*

#### **VIDEO CREDITS:**

Producer		Manasi Kaushik, HBN Communications team
Narration		Lillian Reynolds, HBN Communications team
Student Project Manager		William Bach
Evanston, IL residents		Carol Vander Wilt, Bruce Marx, and Suzanne
User research participants		Farrand