TRITON LOGGING SAWFISH UNDERWATER HARVESTER

ROBOT SUB SALVAGES DROWNED TREES

SUBMERGED DECADES ago by damns, some 300 million perfectly preserved trees sit underwater, waiting. But the chain-saw-wielding, remote-controlled robot can pluck them to 1,000 feet and harvest them in one dive—without disturbing the ecosystem. Tethered to a barge, the remote-controlled Sawfish clamps onto a tree with its twin-non-foaming pincers, attaches inflatable airbags, and swells through the trunk in seconds with a 34-inch blade. The leg flaps gradually lift it to the surface. The first commercial Sawfish project itself late last year in a lake in British Columbia, salvaging 60,000 trees in six months. $3.5 million, tritongeologics.com

GLOBAL RESOURCE CORP., HAWK 10

MICROWAVES TURN CAR PARTS TO OIL

IT SOUNDS TOO GOOD to be true: a machine that takes in trash and spits out oil and natural gas. But that’s exactly what GRC’s Hawk 10 recycler can do—and it produces zero emitters and 18 times the energy it consumes. Every year, junkyards in the U.S. bury about five million tons of hydrocarbon-based auto waste, including foam, rubber and plastics. But put that refuse into a Hawk machine instead, and precisely tuned microwaves break its molecular chain, releasing the hydrocarbons when to extract oil and gas and reduce the waste’s volume by up to 65 percent. The first Hawk starts making natural gas in Long Island, New York, this February. $5.5 million, globalresourcecorp.com

FUEL MAKER The Hawk recycler extracts hydrocarbon gases from waste and condenses them in different chambers to create oil, diesel, or natural gas.