

Senator Chris H. Wilson proposes the following substitute bill:

TRANSPORTATION INFRASTRUCTURE AMENDMENTS

2023 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Chris H. Wilson

House Sponsor: Jefferson Moss

LONG TITLE

General Description:

This bill designates the ASPIRE Engineering Research Center at Utah State University as the lead research center for strategic planning for electrification of transportation infrastructure and requires certain actions.

Highlighted Provisions:

This bill:

- ▶ designates the ASPIRE Engineering Research Center at Utah State University as the lead research center for strategic planning for electrification of transportation infrastructure in this state;
- ▶ creates a steering committee and requires the creation of an industry advisory board to assist in the direction of the research center and initiative;
- ▶ provides duties of the steering committee, industry advisory board, and the research center;
- ▶ requires reports on the proposed action plan and goals of the initiative; and
- ▶ provides for a sunset review of the initiative.

Money Appropriated in this Bill:

This bill appropriates in fiscal year 2024:

- ▶ to Utah State University -- Education and General -- Education and General as an



26 ongoing appropriation:

- 27 • from the Income Tax Fund, \$2,100,000.

28 **Other Special Clauses:**

29 None

30 **Utah Code Sections Affected:**

31 AMENDS:

32 **63I-1-253**, as last amended by Laws of Utah 2022, Chapters 10, 30, 31, 172, 173, 194,
33 218, 224, 229, 236, 254, 274, and 414

34 ENACTS:

35 **53B-18-1801**, Utah Code Annotated 1953

36 **53B-18-1802**, Utah Code Annotated 1953

37 **53B-18-1803**, Utah Code Annotated 1953

38 **53B-18-1804**, Utah Code Annotated 1953

39 **53B-18-1805**, Utah Code Annotated 1953

40 **53B-18-1806**, Utah Code Annotated 1953



42 *Be it enacted by the Legislature of the state of Utah:*

43 Section 1. Section **53B-18-1801** is enacted to read:

44 **53B-18-1801. Definitions.**

45 As used in this part:

46 (1) "Department of Environmental Quality" means the Department of Environmental
47 Quality created in Section [19-1-104](#).

48 (2) "Department of Transportation" means the Department of Transportation created in
49 Section [72-1-201](#).

50 (3) "Governor's Office of Economic Opportunity" means the Governor's Office of
51 Economic Opportunity created in Section [63N-1a-301](#).

52 (4) "Industry advisory board" means the industry advisory board created in accordance
53 with Section [53B-18-1804](#).

54 (5) "Initiative" means the strategic planning and development initiative to guide the
55 transition to an electrified and intelligent transportation system in this state.

56 (6) "Large public transit district" means the same as that term is defined in Section

57 [17B-2a-802.](#)

58 (7) "Office of Energy Development" means the Office of Energy Development created
59 in Section [79-6-401.](#)

60 (8) "Project director" means the project director of the research center appointed under
61 Subsection [53B-18-1802\(2\)\(b\).](#)

62 (9) "Research center" means the ASPIRE Engineering Research Center at Utah State
63 University.

64 (10) "Steering committee" means the Electrification of Transportation Infrastructure
65 Steering Committee created in Section [53B-18-1803.](#)

66 Section 2. Section **53B-18-1802** is enacted to read:

67 **53B-18-1802. Research enter -- Designation -- Duties.**

68 (1) The ASPIRE Engineering Research Center at Utah State University is designated as
69 the lead research center to coordinate and lead the initiative described in this part.

70 (2) The research center shall:

71 (a) direct and carry out the mission of the initiative;

72 (b) appoint a project director to oversee the initiative; and

73 (c) provide administrative and staff support to the steering committee and industry
74 advisory board.

75 (3) The project director shall:

76 (a) oversee the operations of the initiative; and

77 (b) propose to the steering committee the expenditure of funds appropriated by the
78 Legislature to carry out the duties under this part.

79 Section 3. Section **53B-18-1803** is enacted to read:

80 **53B-18-1803. Steering committee -- Creation -- Duties.**

81 (1) There is created the Electrification of Transportation Infrastructure Steering
82 Committee.

83 (2) The Electrification of Transportation Infrastructure Steering Committee consists of
84 the following members:

85 (a) the executive director of the Department of Transportation, or the executive
86 director's designee;

87 (b) the executive director of the Department of Environmental Quality, or the executive

88 director's designee;

89 (c) the director of the Office of Energy Development, or the director's designee;

90 (d) the executive director of a large public transit district, or the executive director's
91 designee;

92 (e) the executive director of the Governor's Office of Economic Opportunity, or the
93 executive director's designee;

94 (f) one representative of a major electrical power provider in the state, appointed by the
95 governor; and

96 (g) the chair of the industry advisory board created in Section [53B-18-180](#).

97 (3) The steering committee member representing the Department of Transportation
98 shall serve as the chair of the steering committee.

99 (4) The steering committee shall:

100 (a) provide direction to the project director on the nature and priorities of the strategic
101 planning and development initiative;

102 (b) assist the project director in the development of a strategic action plan and
103 implementation related to the electrification of transportation infrastructure;

104 (c) approve annual reports on the strategic planning and development initiative as
105 required in Section [53B-18-1806](#);

106 (d) consider and approve the budget proposed by the project director for the
107 expenditure of funds for the initiative; and

108 (e) review expenditures authorized by the project director made before October 1,
109 2023.

110 (5) The steering committee shall convene no later than October 1, 2023.

111 Section 4. Section **53B-18-1804** is enacted to read:

112 **53B-18-1804. Industry advisory board -- Duties.**

113 (1) The research center shall create an industry advisory board with members selected
114 from the following relevant sectors:

115 (a) electrical power providers;

116 (b) electric bus manufacturers;

117 (c) electric vehicle manufacturers;

118 (d) electric passenger or freight rail manufacturers;

- 119 (e) electric aircraft manufacturers;
- 120 (f) electric freight truck manufacturers;
- 121 (g) high-capacity battery manufacturers;
- 122 (h) large fiber-optic or high-speed Internet providers;
- 123 (i) transportation infrastructure companies;
- 124 (j) charging component, systems, or network providers;
- 125 (k) smart or artificial intelligence-integrated infrastructure providers; and
- 126 (l) any other sector that the research center determines is substantially necessary to
- 127 fulfilling the initiative goals.

128 (2) The industry advisory board members shall designate the chair and other officers of

129 the industry advisory board.

130 (3) The industry advisory board shall:

131 (a) assist the project director in operating the strategic planning and development

132 initiative with insights and needs from across the industries;

133 (b) develop a chapter to be included in each annual report that describes the industry

134 support and perspectives relative to the analysis and recommendations provided in the annual

135 report; and

136 (c) provide at least one representative to participate in briefings to interim or

137 appropriations committees of the Legislature.

138 Section 5. Section **53B-18-1805** is enacted to read:

139 **53B-18-1805. Duties of the project director.**

140 (1) The project director and the steering committee shall consult the following parties

141 in developing and carrying out the initiative:

142 (a) representatives of each sector described in the industry advisory board membership

143 in Subsection [53B-18-1804\(1\)](#), regardless of whether that sector is actually represented on the

144 industry advisory board;

145 (b) institutions of higher education, including institutions of technical education, both

146 inside and outside this state;

147 (c) the chairs of the following committees of the Legislature:

148 (i) the Infrastructure and General Government Appropriations Subcommittee;

149 (ii) the Public Utilities, Energy, and Technology Interim Committee; and

- 150 (iii) the Transportation Interim Committee; and
151 (d) any other persons or entities the steering committee determines is relevant or
152 necessary to fulfilling the stated mission.
- 153 (2) The project director, in consultation with the steering committee and the industry
154 advisory board, shall lead an outreach and promotional effort to:
- 155 (a) build awareness among stakeholders, industry partners, federal agencies, and the
156 state's congressional delegation of the state's efforts to be a national leader in electrifying the
157 state's transportation system; and
- 158 (b) attract industry partners and industry and federal investment to the state to design,
159 develop, and deliver systems to promote and implement the initiative.
- 160 (3) The project director shall:
- 161 (a) oversee the operations of the initiative; and
162 (b) propose to the steering committee the program budget for the expenditure of funds
163 appropriated by the Legislature to carry out the duties under this part.
- 164 (4) (a) The project director may, in accordance with this part, and subject to this
165 Subsection (4), expend funds appropriated by the Legislature.
- 166 (b) (i) Before October 1, 2023, the project director may not expend more than 25% of
167 the annual project budget.
- 168 (ii) At the first meeting of the steering committee, the project director shall:
- 169 (A) provide a detailed account to the steering committee for all expenditures made
170 before October 1, 2023; and
- 171 (B) present a budget proposal for the remainder of the fiscal year ending June 30, 2024.
- 172 (iii) Before October 1, 2023, the project director may expend funds for the following
173 purposes:
- 174 (A) establish necessary and time-sensitive groundwork for development of the vision
175 and strategic objective of the initiative;
- 176 (B) acquisition of materials needed for the initiative; and
177 (C) costs to hire and pay salaries of staff.
- 178 (c) Except as described in Subsection (4)(b), the project director:
- 179 (i) shall propose an annual budget for the initiative; and
180 (ii) may not expend funds appropriated to the research center outside of the approved

181 budget without approval of the steering committee.

182 Section 6. Section **53B-18-1806** is enacted to read:

183 **53B-18-1806. Project development and strategic objectives -- Reporting**
184 **requirements.**

185 (1) (a) The research center shall develop and define an action plan for the
186 electrification of transportation infrastructure in this state.

187 (b) The research center shall provide a report of the action plan that includes:

188 (i) a description of the ideal electrified transportation system and incremental steps to
189 implement the action plan over 10-year, 20-year, and 30-year time horizons, including a
190 description of a transportation system that:

191 (A) provides intelligent coordination for vehicular traffic and charging individually and
192 collectively into a dynamically communicative transportation system that links to and
193 coordinates with the electric grid;

194 (B) integrates across and supports all modes of transportation and vehicle classes in
195 complementary ways;

196 (C) integrates with hydrogen and renewable natural gas generation, storage, grid
197 support, and fuel cell vehicles in complementary ways; and

198 (D) provides improved air quality, reduced cost to move people and goods, and new
199 jobs and economic growth in the state;

200 (ii) strategic objectives in each element of the action plan above that are necessary to
201 realize the action plan;

202 (iii) an initial description of changes needed to realize the action plan in each of the
203 following sectors across the ecosystem:

204 (A) electrical power generation, distribution, and utility-scale energy storage
205 infrastructure and capacity, including reliability, cost, and availability standards;

206 (B) interconnected smart charging infrastructure, intelligent transportation systems,
207 control systems, and communications systems to facilitate the transition to electrified
208 transportation;

209 (C) private surface transportation, including passenger vehicles, freight trucks, and
210 freight trains;

211 (D) public surface transportation, including passenger vehicles, buses, and trains;

212 (E) air transportation, including private commercial aircraft and unmanned aircraft
 213 systems;

214 (F) vehicles that operate off-highway, including construction, mining, and agriculture;

215 (G) charging technology, solutions, and systems, including charging stations and
 216 shared use of infrastructure across modes of transportation and vehicle classes;

217 (H) workforce, including analysis of the capacity and types of education, vocations,
 218 trades, and certifications necessary in each relevant sector to develop the local workforce
 219 needed to accomplish the vision; and

220 (I) any other sector that the steering committee determines is substantially necessary to
 221 fulfilling the stated mission;

222 (iv) identification of key gaps in the ecosystem from the sectors and industries
 223 described in this Subsection (1)(b) that serve as priorities for near term innovation and
 224 investment; ~~H~~→ **[and]**

224a **(v) evaluation of risk and vulnerability of relevant supply chains, including natural**
 224b **resources, to ensure stability and availability; and** ~~H~~

225 ~~H~~→ **(v)** ~~H~~ **(vi)** ~~H~~ an accounting of funds appropriated to or received by the research center,
 225a and any
 226 expenditure of those funds.

227 (c) Before August 1, 2024, the research center shall report on the action plan described
 228 in this Subsection (1) to the Infrastructure and General Government Appropriations
 229 Subcommittee of the Legislature.

230 (2) Beginning in 2025, before August 1 of each year, the research center shall provide
 231 an annual report to the Infrastructure and General Government Appropriations Subcommittee
 232 of the Legislature, including:

233 (a) an updated and prioritized list of strategic objectives identified in the initial report
 234 described in Subsection (1)(b);

235 (b) any actionable goals established or recommended by the research center;

236 (c) a prioritized list of steps to accomplish the goals and strategic objectives identified
 237 by the research center;

238 (d) metrics to measure the effectiveness of any goals or strategic objectives and related
 239 analysis;

240 (e) the research center's progress and effort in developing a long-range strategy for
 241 implementation of the action plan;

242 (f) the research center's efforts in and results of outreach to relevant industry,

243 government, and investment sectors;

244 (g) any recommendations on potential legislation to implement the action plan; and

245 (h) an accounting of funds appropriated to or received by the research center, and any
246 expenditure of those funds.

247 (3) Before November 30, 2027, the Transportation Interim Committee shall consider
248 whether to continue the initiative as described in this part or allow the repeal of this part as
249 described in Section [63I-1-253](#).

250 Section 7. Section **63I-1-253** is amended to read:

251 **63I-1-253. Repeal dates: Titles 53 through 53G.**

252 (1) Section [53-2a-105](#), which creates the Emergency Management Administration
253 Council, is repealed July 1, 2027.

254 (2) Sections [53-2a-1103](#) and [53-2a-1104](#), which create the Search and Rescue Advisory
255 Board, are repealed July 1, 2027.

256 (3) Section [53-5-703](#), which creates the Concealed Firearm Review Board, is repealed
257 July 1, 2023.

258 (4) Section [53B-6-105.5](#), which creates the Technology Initiative Advisory Board, is
259 repealed July 1, 2024.

260 (5) Section [53B-7-709](#), regarding five-year performance goals for the Utah System of
261 Higher Education is repealed July 1, 2027.

262 (6) Title 53B, Chapter 17, Part 11, USTAR Researchers, is repealed July 1, 2028.

263 (7) Section [53B-17-1203](#), which creates the SafeUT and School Safety Commission, is
264 repealed January 1, 2025.

265 (8) Title 53B, Chapter 18, Part 16, USTAR Researchers, is repealed July 1, 2028.

266 (9) Title 53B, Chapter 18, Part 18, Electrification of Transportation Infrastructure
267 Research Center, is repealed on July 1, 2028

268 ~~[(9)]~~ (10) Subsection [53C-3-203](#)(4)(b)(vii), which provides for the distribution of
269 money from the Land Exchange Distribution Account to the Geological Survey for test wells
270 and other hydrologic studies in the West Desert, is repealed July 1, 2030.

271 ~~[(10)]~~ (11) ~~[Subsection]~~ Subsections [53E-3-503](#)(5) and (6), which create coordinating
272 councils for youth in custody, are repealed July 1, 2027.

273 ~~[(11)]~~ (12) In relation to a standards review committee, on January 1, 2028:

274 (a) in Subsection 53E-4-202(8), the language "by a standards review committee and the
275 recommendations of a standards review committee established under Section 53E-4-203" is
276 repealed; and

277 (b) Section 53E-4-203 is repealed.

278 ~~[(12)]~~ (13) Section 53E-4-402, which creates the State Instructional Materials
279 Commission, is repealed July 1, 2027.

280 ~~[(13)]~~ (14) Title 53E, Chapter 6, Part 5, Utah Professional Practices Advisory
281 Commission, is repealed July 1, 2023.

282 ~~[(14)]~~ (15) Section 53F-2-420, which creates the Intensive Services Special Education
283 Pilot Program, is repealed July 1, 2024.

284 ~~[(15)]~~ (16) Section 53F-5-203 is repealed July 1, 2024.

285 ~~[(16)]~~ (17) Section 53F-5-213 is repealed July 1, 2023.

286 ~~[(17)]~~ (18) Section 53F-5-214, in relation to a grant for professional learning, is
287 repealed July 1, 2025.

288 ~~[(18)]~~ (19) Section 53F-5-215, in relation to an elementary teacher preparation grant, is
289 repealed July 1, 2025.

290 ~~[(19)]~~ (20) Section 53F-5-219, which creates the Local ~~[Innovations]~~ Innovations
291 Civics Education Pilot Program, is repealed on July 1, 2025.

292 ~~[(20)]~~ (21) Subsection 53F-9-203(7), which creates the Charter School Revolving
293 Account Committee, is repealed July 1, 2024.

294 ~~[(21)]~~ (22) Subsections 53G-4-608(2)(b) and (4)(b), related to the Utah Seismic Safety
295 Commission, are repealed January 1, 2025.

296 ~~[(22)]~~ (23) Subsection 53G-8-211(5), regarding referrals of a minor to court for a class
297 C misdemeanor, is repealed July 1, 2027.

298 ~~[(23)]~~ (24) Section 53G-9-212, Drinking water quality in schools, is repealed July 1,
299 2027.

300 ~~[(24)]~~ (25) Title 53G, Chapter 10, Part 6, Education Innovation Program, is repealed
301 July 1, 2027.

302 Section 8. **Appropriation.**

303 The following sums of money are appropriated for the fiscal year beginning July 1,
304 2023, and ending June 30, 2024. These are additions to amounts previously appropriated for

305 fiscal year 2024. Under the terms and conditions of Title 63J, Chapter 1, Budgetary Procedures
306 Act, the Legislature appropriates the following sums of money from the funds or accounts
307 indicated for the use and support of the government of the state of Utah.

308 ITEM 1

309 To Utah State University - Education and General

310 From Income Tax Fund 2,100,000

311 Schedule of Programs:

312 Education and General 2,100,000