

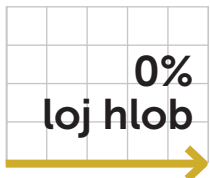


Pes Tsawg Leej Neeg Nyob

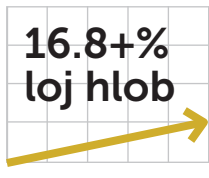
YUAV MUAJ NEEG NYOB NTAU NPAUM CAS MUS RAU XYOO 2040?

Raws li cov duab hauv qab no qhia, kuj yuav tsis muaj raws li no rau txhua lub zog.

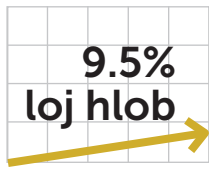
COV NEEG NYOB HAUV WISCONSIN MUS TXOG XYOO 2040



Cov nroog me tsawg tshaj 500 tus neeg nyob



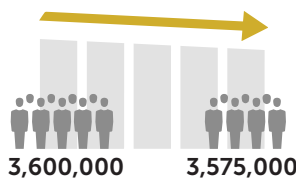
Cov nroog tsis loj tsis me 2,000-50,000 cov neeg nyob



Cov nroog loj tshaj 50,000 tus neeg nyob

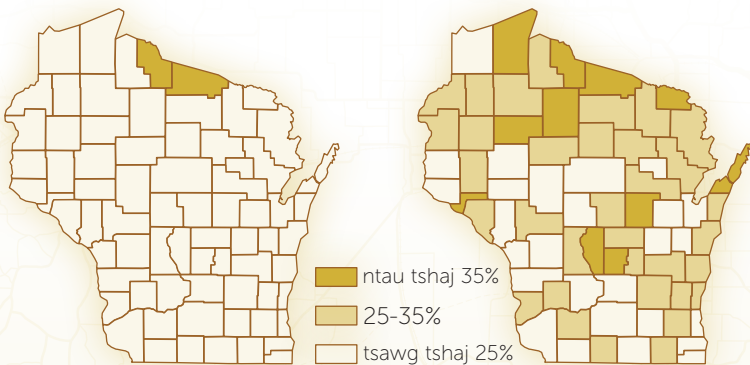
COV HNUB NYOOG NTAWM COV NEEG TSEEM UA HAUJLWM HAUV WISCONSIN

Cov hnuv nyoog ua haujlwm hauv Wisconsin — 18 xyoo txog 64 xyoos — kwv yees tias yuav pib qis zuj zus rau sijhawm xyoo 2020 thiab 2030 li ntawm 3,600,000 plhom mus rau 3,575,000 rau thaum txog xyoo 2040.



COV NEEG LAUS NYOB HAUV WISCONSIN

Lub xeev Wisconsin cov neeg laus muaj 65 xyoos rov saud, npaj tias yuav ntau ob npaug rau xyoo 2010 mus txog 2040, tshwj xeeb yog cov neeg nyob ntawm qaum teb Wisconsin thiab tej ntug zog.



Pes Tsawg Feem Pua
Cov hnuv nyoog 65 rov saud

Kev Suav Pej Xeev Xyoo 2010

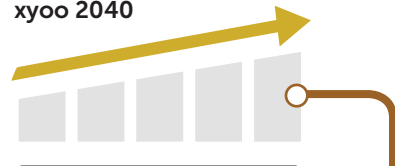
Pes Tsawg Feem Pua
Cov hnuv nyoog 65 rov saud

Kwv Yees Xyoo 2040

TEJ YAM TSEEM CEEB

13.5%

cov neeg nyob ntau zuj zus tuaj txij xyoo 2010 mus txog rau xyoo 2040



Kwv yees tias cov neeg nyob hauv Wisconsin rau xyoo 2040 yuav ntau ze li ntawm 6,500,000 plhom tus neeg, qhov no yog ntau tshaj cov neeg khiav tuaj nyob hauv xyoo 2010 uas yog 800,000 leej xwb.



Raws li koom haum Wisconsin Dept. of Administration tshawb nrhiav pom, pib txij xyoo 2010-2040 yuav muaj neeg coob tuaj **NYOB HAUV TEJ KEM ZOS HAUV WISCONSIN** thiab ib puag ncig tej zos uas twb muaj lawm

Cov nroog tsis loj tsis me (2,000 mus txog 50,000 cov neeg nyob) suav tagrho **yog ntau tshaj ob peb npaug (two-thirds) cov neeg uas nyob hauv Wisconsin** uas yuav coob ntau ntixv thaum txog xyoo 2040

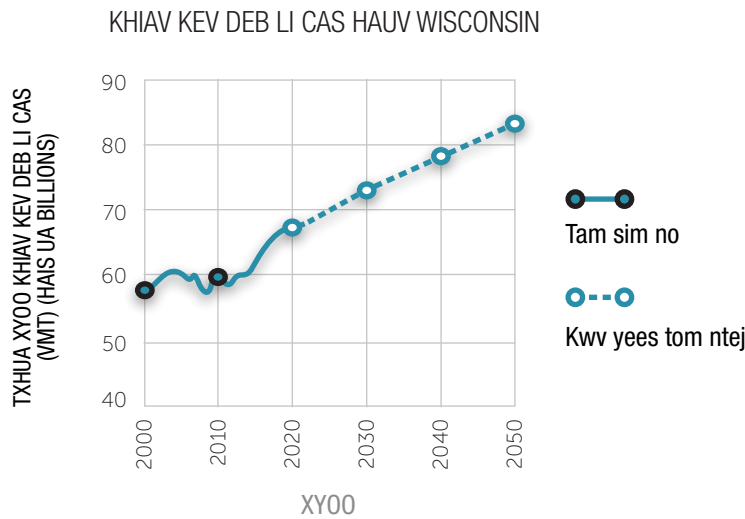


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Cwj Pwm Tsav Tsheb

KHIAV KEV DEB LI CAS (VEHICLE MILES TRAVELED)

WisDOT kwv yees tias txhua xyoo lub xeev cov neeg khiav kev deb li cas (vehicle miles traveled) lossis VMT, yuav pib ntwam 65.9 billion (2018) mus txog 82.9 billion (2050), ces peb yuav tau tsim tsa tej tsheb thiab kev kom thiaj li txaus rau sawvdaws siv.

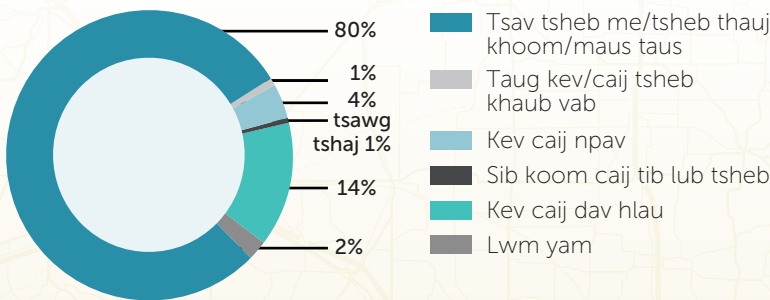


Tej xwm txheej cuam tshuam kev khwv noj haus thiab lub neej xws li sijhawm Great Recession thiab tus kab mob COVID-19 kuj yuav ua rau tej khiav kev deb hloov, ua rau tus naj npawb VMT tsawg dua li qub.

XUM TSAV HOM TSHEB TWG

Nyob hauv Wisconsin, muaj txog li 80 feem pua tus neeg khiav kev deb li cas (person miles traveled, PMT) yog caij tsheb, caij tsheb thauj khoom, lossis caij maus taus. Kev caij dav hlau, uas mus tau deb tshaj, tsaus muaj 14 feem pua ntwam tus naj npawb PMT xwb. Kev caij npav tsuas muaj txog li 3.5 feem pua PMT nyob hauv lub xeev.

TUS NEEG KHIAV KEV DEB LI CAS CAIJ LUB TSHEB TWG, WISCONSIN (2017)



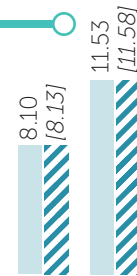
TEJ YAM TSEEM CEEB

Tagnrho lub xeev kev tsav mus mus los los yuav kwv yees tias nce mus ntxiv 20 feem pua thaum txog xyoo 2050



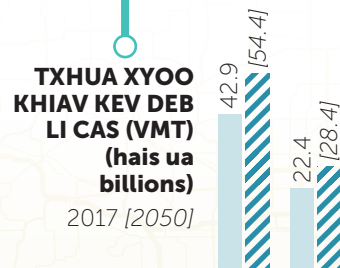
4.4 billion nyob hauv xyoo 2020

5.3 billion suav tagnrho lub xeev neeg khiav kev deb nyob rau thaum txog 2050



KWV YEES TAGNRHO KHIAV KEV DEB LI CAS (tsav pes tsawg mais) 2017 [2050]

Tej nroog hauv zos Tej nroog ntwam ntug zos



TXHUA XYOO KHIAV KEV DEB LI CAS (VMT) (hais ua billions) 2017 [2050]

Tej nroog hauv zos Tej nroog ntwam ntug zos

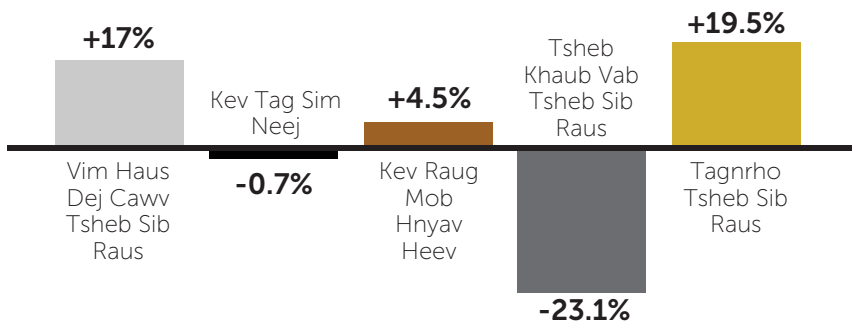




Kev Nyab Xeeb

Nyob nruab nrab xyoo 2015 thiab 2019, Wisconsin tej kev muaj li ntawm 136,007 tsheb sib raus thiab 573 txoj sia tau tag sim neej txhua xyoo.

KEV NYAB XEEB NTAWM WISCONSIN TEJ KEV (2015-2019)



KEV SOJ NTSUAM TSHEB SIB RAUS



Ntawm 551 tus neeg ua tsheb sib raus hauv xyoo 2019, 25 feem pua (140 leej) tau tag sim neej vim haus dej cawv thiab 30 feem pua (163) tau tag sim neej vim tsav tsheb ceev dhau lawm.



Nyob rau xyoo 2019, tus tub ceev xwm uas soj qab cov neeg tuag no, nrhiav pom tias 65 feem pua tsis looj lub kaus moom tiv thaiv taub hau thaum tsav lub maus taus.



Tus tsiaj mos lwj yog tus thib 3 uas tuag ntau tshaj nyob hauv Wisconsin (lawv kiag qab lwm lub tsheb thiab tej khoom nyob tom kev), uas tsim ntau tshaj li 18,400 leej neeg ua tsheb sib raus nyob hauv Wisconsin (2019).

TXOJ HLUA PAV TUS NYOB HAUV TSHEB NYAB XEEB

Kwv yees tias 89 feem pua tus neeg nyob hauv Wisconsin yeej muab txoj hluav pav tus neeg nyob hauv tsheb kom nyab xeeb. Li ntawm ib nrab txhua tus neeg ua tsheb sib raus uas tau tag sim neej nyob hauv Wisconsin yog vim tus neeg ntawd tsis muaj txoj hluav pav, ces ua raws nws haj yam ya tawm tau thaum nws ua tsheb sib raus.

KEV KOOM TES 100%
 kuj pab cawm tau 44 tug neeg txoj sia thiab cheem kom tsis txhob muaj 650 tug neeg raug mob txhua xyoo.

TEJ YAM TSEEM CEEB

Nyob rau xyoo 2019, cov neeg tsav tsheb uas tsis ua zoo saib txog 12,377 leej uas **5,273 tus neeg raug mob thiab 26 tus neeg tuag**



Nyob rau nruab nraug xyoo 2010 thiab 2019, kwv yees li **muaj 37 lub tsheb mus raus tsheb nqaj** tshwm sim rau txhua xyoo



Nyob rau xyoo 2019, **muaj txog 2,489 ua tsheb sib raus rau tej chaw kho kev** uas muaj 899 tus neeg raug mob thiab 17 tus neeg tuag



Tau muab peev nyiaj **\$153.5 million** uas yuav tsum siv (FY 2015-2019) rau koom haum kho kev Wisconsin Highway Safety Improvement Program los tsim kho tej kev zoo kom zoo tsav nyob thoob plaws lub xeev



Txoj kab kem hauv plawv kev uas dhos tej lub pob rau thaum tsav tsheb ua suab nrov nrov (rumble strips) pab kom cov tsheb tsis txhob tsav los sib roos ntawm taub hau tsheb li ntawm **45 feem pua rau tej kev ua ob kab tom ntug zog** thiab **64 feem pua rau tej kev ua ob kab hauv zos**



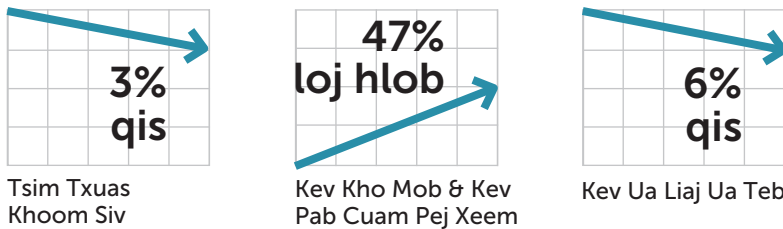


Lub Tebchaws Kev Khwv Noj Haus Mus Zoo Li Cas

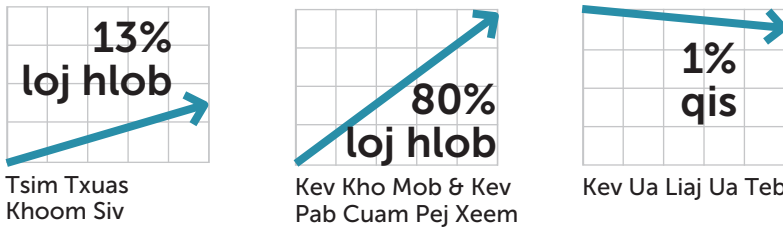
TEJ LAG LUAM MUS LI CAS

Kwv yees tias cov neeg ua haujlwm thiab cov nyiaj uas tej lag luam khwv tau yuav pab peb xam tias lub xeev Wisconsin kev khwv noj haus kuj yuav hloov rau thaum txog xyoo 2050.

COV NEEG UA HAUJLWM HAUV WISCONSIN MUS TXOG RAU XYOO 2050*



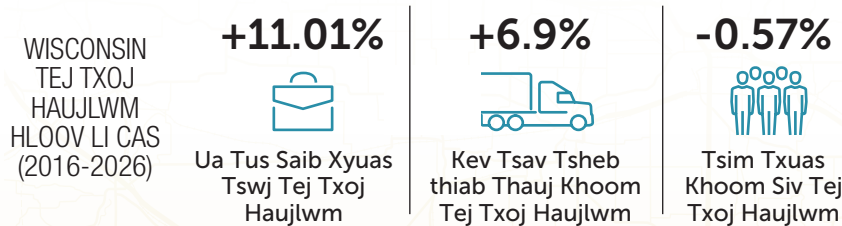
COV NEEG UA HAUJLWM COV KHVV NYIAJ TAU LI CAS HAUV WISCONSIN MUS TXOG RAU XYOO 2050*



*Tej naj npawb no yog nyob raws cov nyiaj mus nqis rau xyoo 2009.

TEJ TXOJ HAUJLWM

Nyob nruab nrab xyoo 2016 thiab 2026, tej haujlwm ua tus neeg saib xyuas thiab tej haujlwm ua tus tsav tsheb yuav muaj ntau ntxiv nyob hauv lub xeev Wisconsin. Thiab nyob rau tib lub sijhawm ntawd, tej txoj haujlwm xws li tsim txuas khoom siv kuj yuav pib qis zuj zus mus.



TEJ KEV TSAV TSHEB

Tej kev tsav tsheb yuav tsis daig thiab tsav kev du lug yuav ua rau tej lag luam hauv lub xeev Wisconsin khwv tau nyiaj zoo heev thiab tej neeg tuaj xyuas lub xeev los kuj yuav zoo rau lawv thiab.



Tej xaub moob tshaj uas cov neeg tsav tsheb hauv Wisconsin rau xyoo 2017

16.4 plhom xaub moos lossis \$517 lab

TEJ YAM TSEEM CEEB

30.8% Cov nyiaj khwv tau tagnrho kwv yees tias yuav nce mus ntxiv pib xyoo 2020 mus txog xyoo 2050

50.2% Cov khoom lub xeev tsim tau tagnrho (tej khoom uas lub xeev tsim tau los muag siv) kwv yees tias yuav nce mus ntxiv pib xyoo 2020 mus txog xyoo 2050

Raws li FHWA hais, lub xeev Wisconsin yog lub **xeev thib 9 uas cov kev tsav tsheb zoo tshaj** nyob hauv Tebchaws Mekas raws li koom haum ntsuas xyuam tej kev tsav tsheb Interstate Truck Travel Time Highway Reliability tshawb nrhiav pom (2017)

\$3 BILLION

Kwv yees tias tus nqi ntawm **27 lab lub tsheb thauj khoom** yuav xa khoom mus mus los los hauv Wisconsin tej chaw xa khoom tawm



\$150 BILLION

Kwv yees tias tus nqi ntawm **190 lab lub tsheb thauj khoom** uas yog Wisconsin cov tsheb nqaj ua tus thauj nyob rau xyoo 2017



Nco tseg: Cov ntaub ntawv muab sau hauv qab no yog kwv yees thiab xam ua ntej muaj tus kab mob COVID-19 kis thoob qab ntuj.

Yog xav paub tias tej ntaub ntawv no los qhov twg los, yeej muab tau thiab



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Tej Hluav Taws Xob thiab Chaw Nyob Ib Puag Ncig

KOJ PUAS PAUB?

Koom haum WisDOT ua haujlwm los pab tswj kom peb tej chaw nyob ib puag ncig thiab tej khoom siv ntuj tsim teb raug nyob zoo thiab tus. Peb tes haujlwm ib txhia yog rov siv dua tej kev uas tau muab pua lawm, rov cog noob nroj tsuag ib txwm muaj nyob rau tej kev tsav tsheb, rov tu tej pas dej, siv tej hluav taws xob siv nplaim hnuv ci (solar power) rau tej chaw so ntwam ntug kev, txo kom txhob siv ntsev ntau ntau, thiab npaj yuav siv lwm yam roj li cas ntxiv.

HUAB CUA ZOO LI CAS

Lub koom haum Congestion Mitigation and Air Quality Program tau pab muab peev nyiaj \$33.2 million los kho tej kev caij tsheb khaub vab thiab tsav tseb nyob hauv Wisconsin rau xyoo 2020-2024.



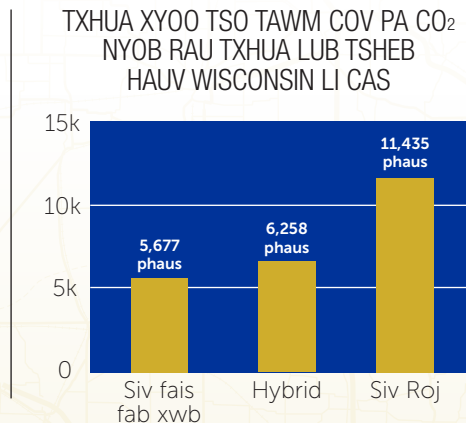
Lub koom haum WisDOT tau peev nyiaj \$1.5 lab nyob rau xyoo 2018 los ntwam koom haum Federal Transit Administration's Low or No Emission Program los yuav 6 lub tsheb npav uas siv hluav taws xob npev thij lij (battery) nyob hauv tej koom haum ntwam ntug zog.

LWM YAM ROJ SIV TAU

Lub xeev Wisconsin tej kev loj, (I-39, I-41, I-43, I-90, I-94, I-535) thiab txoj kev US 53 thiab US 151 tau muab teev tseg tias yog Alternative Fuel Corridors uas yuav los sib sau ib pab pawg siv lwm yam roj los sam rau tej tsheb thiab tshoj tej tsheb tsav.



Kww yees tias muaj **4,500 lub tsheb uas siv fais fab** nyob hauv lub xeev Wisconsin hnuv no



TEJ YAM TSEEM CEEB

Rau txhua **acre** av pas dej uas raug los ntwam kev tsim txuas kev tsav tsheb.



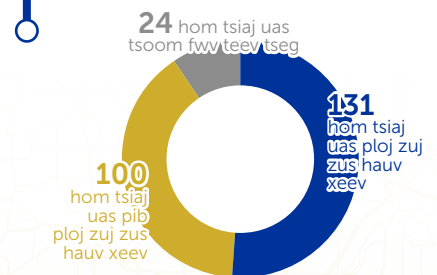
1.4 acres av pas dej rov cawm tau nyob hauv l ub xeev

Pib txij li xyoo 1993, lub koom haum WisDOT tau rov cawm 5,800 acre av pas dej rov qab rau lub xeev

Tej laj kab thaiv daus snow — xum cog tej ntoo siab thiab ntoo me los thaiv — uas yuav pab **txo kev**



ua tsheb sib roos thaum caij ntuj no li ntwam 50-75 feem pua thiab muaj nroj tsuag rau cov muv Rusty Patched Bumble Bee los coj tej hmoov paj ntwam ib lub paj mus rau lwm lub paj



Cov Tsheb Sib Txuas Lus Nrog Lwm Lub Tsheb thiab Cov Tsheb Nws Txawj Tsav Nws



Thaum txog xyoo 2050, tej tsheb nyob hauv Wisconsin yuav txawv heev lawm. Yeej twg muaj cov tsheb tam sim no uas yog cov tsheb sib txuas lus nrog lwm lub tsheb thiab nws txawj tsav nws (connected and automated vehicle, CAV), WisDOT vam tias tseem yuav tshawb fawb ntxiv seb cov tsheb CAV no yuav cuam tshuam Wisconsin tej kev, tej kev cai uas twb yeej muaj nyob lawm, cov kws saib xyuas lub zog yuav tau ua li cas, yuav ceev nqis tes ua raws txoj cai li cas, thiab yuav cuam tshuam tej neeg zej zog li cas.

Connected vehicles (CVs)
cov tsheb sib txuas lus nrog lwm lub tsheb thiab tej tsev khoom nyob nws ib puas ncig



Automated vehicles (AVs)
cov tsheb nws txawj tsav nws tiamsis kuj tseem nij tibneeg los nias twj thiab

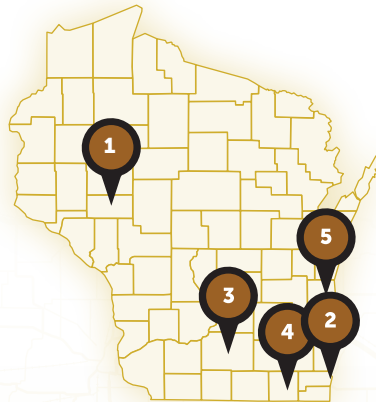
Cov Tsheb Sib Txuas Lus Nrog Lwm Lub Tsheb thiab Cov Tsheb Nws Txawj Tsav Nws (CAV) yuav siv lub hwb tswvyim los ntawm cov tsheb AV thiab CV no.

KEV TSHAWB FAWB TSHEB CAV HAUV WISONSIN

Muaj ntau lus koom haum thiab lag luam nyob hauv Wisconsin uas tau muaj kev koom tes nrog kev tshawb fawb cov tsheb CAV, xws li Wisconsin-Madison, UW-Milwaukee, MGA Research Corporation, Traffic & Parking Control Co., Inc., thiab lub city of Madison.

TEJ CHAW YUAV SIM TSAV COV TSHEB NO

- 1 Eau Claire**
Chippewa Valley Regional Airport
- 2 Racine**
• UW-Madison Extension Racine County
• Gateway Technical College
• City of Racine
- 3 Madison**
• UW-Madison
• City of Madison
- 4 Burlington**
MGA Research
- 5 Elkhart Lake**
Road America



PAB PAWG TAWM TSWVYIM HAUV WAVE

Nyob rau xyoo 2020, koom haum WisDOT tau tsim tsa lub koom haum Pab Pawg Tawm Tswvyim WAVE uas yog Wisconsin Automated Vehicle External Advisory Committee. Lub koom haum no muaj tej neeg sawv cev los ntawm coob leej ntau tus xws li cov koom haum ntiag tug, cov pab pawg nonprofit, lwm cov koom haum thiab nrog rau soom fww tej koom haum tibi, pab pawg no lub hom phiag yog los muab cov neeg xav muaj feem koom tes sau los ua ib pab kom sawvdaws thiaj li pab tawm tau tswvyim txog kev npaj tsim tej tsheb CAV, yuav tsim tsa thiab ceev kev nqis tes li cas, thiab tej yam no yuav cuam tshuam lub xeev li kev tsav tsheb thiab caij tsheb li cas.

TEJ YAM TSEEM CEEB



Nws yeej tseem muaj tej yam tsis tau paub tseeb txog cov tsheb CAV. Thaum txog xyoo 2050, **cov tsheb tshiab no yuav muaj neeg tsav ntau zuj zus nce theem 10 feem pua mus txog 90 feem pua thob lub tebchaws no.**



Vim twb pib muaj cov tsheb CAV lawm, cov ntaub ntawv uas tau ceev tseg **mam li qhia txog tej kev thiab tsheb nyob ib puas ncig seb zoo li cas**

Cov tsheb AV yeej hloov tau **kev nres tsheb** uas kuj yuav muaj feem cuam tshuam tau seb yuav txuas tej kev tsav tsheb li cas ntxiv rau yav tom ntej thiab yuav muab tej av seem tsim tsa li cas.



Cov tsheb CAV kuj yuav koom tes ua ke rau yav tom ntej, **los npaj yuav tsim tsa tej kev tsav tsehb li cas rau yav tom ntej thiab yuav txuas tej kev no li cas mus ntxiv**



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